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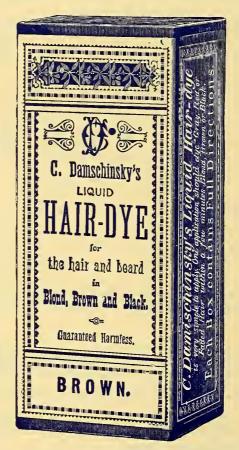
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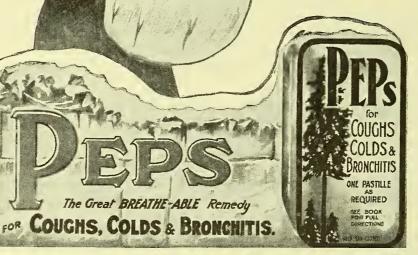
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Lithia Carbonate

Lithol (Ichthyol sub.)

Mercurials

Peppermint Oil

Pepsine

Phenacetin

Phenazone

Pyrogallic Acid

Phenolphthalein

Potassium Sulpho Guaiacolate

Salol

Sugar of Milk

Theobromine Pure Alkaloid

Vanillin

Wintergreen Artificial Oil

R.W. Greeff & Co., THAMES HOUSE, QUEEN STREET PLACE, LONDON, E.C.



QUININE



QUININE & QUININE SALTS

Fully answering requirements of B.P. and other Pharmacopæias. Unexcelled in Uniformity of Quality, Brilliant Crystallisation, and Purity of Colour.

Sole Sales Agents:

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"CHEMICKING FEN, LONDON: 63 CRUTCHED FRIARS,

Tolophone No.:
AVENUE 6660 (SLINES).

CIVAUDAN, LAVIROTTE & CIE LYONS
SOCIETE de CHAMPLAN BASTIA
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FABBRICA LOMBARDA di Prodotti Chimici MILAN
Dr. B. SIEBER Attisholz, near SOLEURE

are first-hand suppliers of above firms' Specialities, viz.:

ACIDS: ACETYL-SALICYLIC, CITRIC, DIETHYLBARBITURIC,
SALICYLIC, PHOSPHORIC, and TARTARIC
ALKALOIDS: ADRENNER, ARECOLINE, COCAINE, COTARNINE,
ESERINE, SIRVCHNINE, and TARTARIC
BALCYLIC, PHOSPHORIC, and TARTARIC
ALKALOIDS: ADRENNER, ARECOLINE, COCAINE, COTARNINE,
ESERINE, SIRVCHNINE, and
DIACETYLMORPHIA, ETHYL CHLORIDE
GLYCEROPHOSPHATES, GUAIACOL, and preparations
HEXAMETHYLENTETRAMINE
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MERCURIALS, METHYLSULPHONAL
PHENAGETIN, PHENAGONE, PHENOLIPHTHALEIN, DIAMIDOPYRINE, UROPURGOL
PHOTOGRAPHIC CHEMICALS (Pyropalic Acid, Motol, Amidol, etc.)
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LIMITED STOCKS OF ABOVE PRODUCTS
IN LONDON. SHIPMENTS POSSIBLE FROM
MARSEILLES AND GENOA.

'PAREX' **PAGEANT** STARTS JAN. 9.



MORE **XMAS** GIFT LINES.



TOILET CASES.

Fitted with mirror, comb and moustache brush, in green leather case. 8/6 per dozen.

(See page 537 in list)

New Showcards! New Counter Leaflets! New Labels! Our All-

British "Effective" Vacuum Flasks are, indeed, heralded in a manner worthy of the best House of Maw traditions. At present "Effectives" are made in pint size only. Price Price in Retail Each, Dozen Lots, Price.

OUR ALL-BRITISH EFFECTIVE FLASKS.

		Later II.	DOZCII LIOUS.	A LICC.
BE 1.	Aluminium Top and Cup, japanned casing	3/9	42/-	5/-
BE 2.	Aluminium Top and Cup, leatherette-covered casing	3/11	44/-	5/6
BE 3.	Nickel Top and Cup, japanned casing	4/-	45/-	5/6
BE 4.	Nickel Top and Cup, real washable leather-covered casing	5/-	57/-	6/9
BE 5.	All Nickel-Plated Outer Casing, best quality	7/6	84/-	10/6
	Refills, 2/9 each. Leather Carrying Cases with Strans	4/4 ear	ch.	

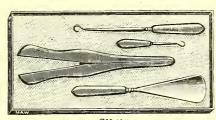
* Dozen Prices will be charged for assorted dozens. PLACE YOUR ORDER NOW FOR NEW YEAR DELIVERY

OUR WEEKLY COMMUNIQUE

Metric Weights & Measures! The time is rapidly approaching when the Pharmacy must be equipped with macy must be equipped with
these new dispensing accessories. Here are some good
Metric Weight Sets:
500 grammes to 1 gramme,
stamped, 11/6 per set.
With lid. 1/- extra.
1000 grammes to 1 gramme,
stamped, 17/- per set.
With lid, 1/- extra.
10 grammes to 1 centigramme, stamped,
4/6 per set. With lid,
6d. extra.
20 grammes to 1 centi-

4/6 per set. With Ind, 6d. extra.
20 grammes to 1 centigramme, stamped, 5/6 per set. With lid, 9d. extra.
50 grammes to 1 centigramme, stamped, 7/- per set. With lid, 1/- extra.
All above are supplied in polished wood blocks.
Another necessity will be glass metric measures graduated in mils.

an	ateo	m mus.		
	Our	Prices a		
			Per do:	
10	mils.	, stamped		
50	11	1.1	12	
100	,,	**	14/	
500	3.1	11	35/	
1000	2.2	**	57/	
		e suppli		r
coni	cal or	cup bott	om.	



CH 41

SHOE LIFT SETS WITH (OLOURED FITTINGS.

The handles are made of non-inflammable material, in blue, green, and violet. In neat box ... 42/- dozen. Also CH 40 (3 pieces) ...

BRONCHITIS KETTLES A SELECTION.

B 3916/B The "Combination," detachable spout and spreader, 3 pint, 12/- dozen.

B 749/B. The "Cottage," with jointed spout and spreader,

4 pint, 2/- each: 3 pint, 1/6 each.

The "Brompton," oval, to hang in front of fire, B 747/B. 2 quart and 3 quart, 3/- each.

B 751/B. The "Family," straight spout, 3 quart, 5/9 each.

B 753/B. The "Sick Room," jointed spout, spreader and perforated end piece, 6 pint, 6/3 each.

B 754/B. The "Self-Heating," with perforated end-piece, standing on frame with lamp beneath, 5½ pint, 11/6 each.

We have a large assortment of Bronchitis Kettles. The above examples are all well-tried and soundly constructed patterns.

from 1/- to 11/6 EACH Usual Discount

PERFUMES.

We have our usual comprehensive selection of Perfumes, from 9-per dcz, upwards. Our stock includes some of the finest creations of Roger and Gallet, & Maubert of Paris. Complete list of either, or both, of these may be had on application.

SHAVING MIRRORS.

NEAT FOLDING PATTERNS:

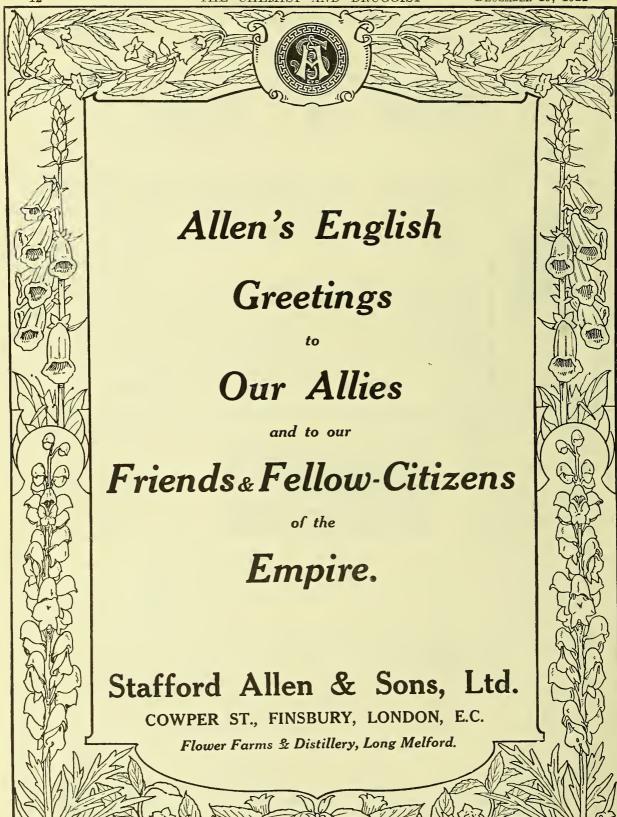
Leatherette cov red, 9/- doz.

"Rexine" Cloth

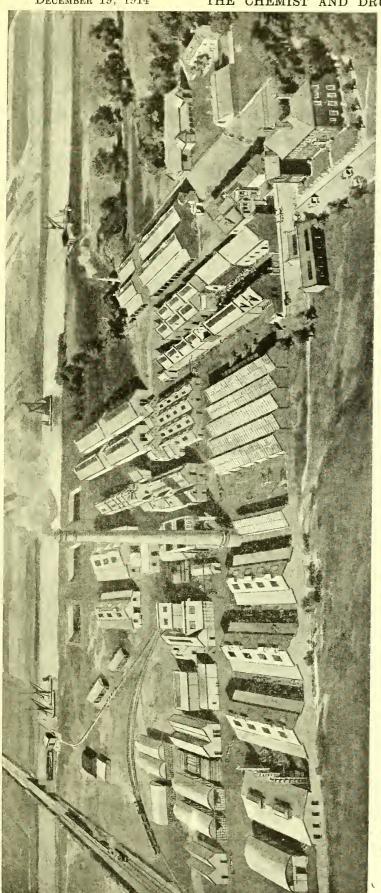
covered, 13 - doz.

Real Leather covered, 21/- doz.





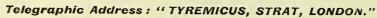
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WITH THESE FACILITIES FOR MANUFACTURE AND EXPANSION AND 117 YEARS US THERE IS NO NECESSITY TO LOOK TO GERMANY WE NEVER LABEL AS OUR OWN MAKE ANY ARTICLE NOT ACTUALLY MANUFACTURED BY US. THE NAME "HOWARDS" IS THEREFORE A GENUINE GUARANTEE. IN THE FUTURE FOR OUR FINE CHEMICALS. WE MAKE ONLY THE FINEST QUALITY. OF EXPERIENCE BEHIND

Best Wishes to the Trade for the coming year.

HOWARDS & SONS, LTD., ILFORD & STRATFORD.



Chomas Cyter&C. STRATFORD, LONDON, E. "Sterling Brand"

XMAS 1914

Though the present may be dark, we trust the future for Pharmacy and the Chemical industry will prove much brighter. May it be at its brightest in the New Year,

GOLD MEDAL, ST. LOUIS, 1904. GRAND PRIZE, LONDON, 1909. GRAND PRIZE, BRUSSELS, 1910.

1915

1915

Thomas Tyrer, F.I.C., F.C.S., Managing Director.

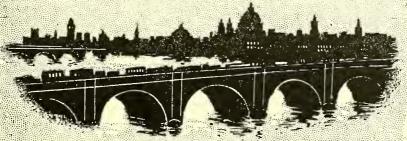
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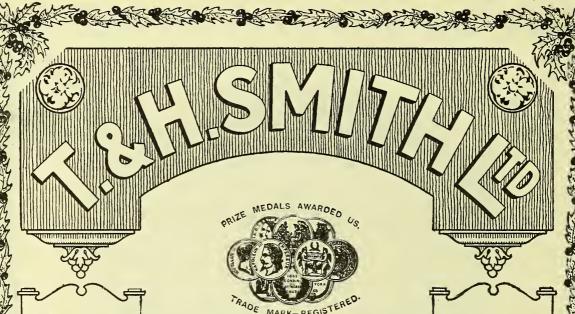
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Best wishes for a Brighter and more Prosperous New Year to all Chemists.

WE ARE AT YOUR SERVICE FOR "OWN NAME" AND ALL KINDS OF PROFIT-BRINGING SOAPS, &c.



MORPHINE AND SALTS

Codeine and Salts

Caffeine

Strychnine

Capsicin

Gingerin

Salicin

Theobromine

Xmas, 1914.

Wishing continued Progress and Prosperity to all in the Drug and Chemical Trades in the forthcoming New Year 1915.

CHLOROFORM PURE,

B.P.

Cantharidin

Emetine

Ergotin

Jalap Resin

Scammony

Resin

Aloin

Podophyllin

GRAND PRIX, PARIS, 1900.

EDINBURGH

BLANDFIELD WORKS

GRAND PRIX, BRUSSELS, 1910.

LONDON

22 CITY ROAD E'C

GRAND PRIX, LONDON, 1908.

GLASGOW
37 WASHINGTON ST

Carry on!

The Watch-Word of our Gallant and Undaunted Troops.

MUST YOU not also "Carry On"?

We can assist you to that end, by supplying

Your DRUGS, PACKED GOODS, SUNDRIES, and other requisites suitable to Prevailing Conditions, at Prices attractive to your Customers and profitable to Yourself.

FRANCIS NEWBERY & SONS, Ltd.
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By "carrying on" with
our co-operation you will
ensure continued Prosperity
in the New Year. HEARTY GREETINGS
and Good Wishes to all our friends
in the Drug Trade.



A Place in the Sun

has long been secured by the "Rembrandt" Druggists' Sundries. Chemists may bask in the sunshine of Prosperity during 1915 by selling only that Brand. Mention of some of our manufactures is made on p. 43 of the "C. & D." Diary, 1915.

THE COMPLIMENTS OF THE SEASON

Henry W. Bush & Co., Lim.

Rembrandt Works, Commercial St., London, E.

THE TRADE



MARK FOR

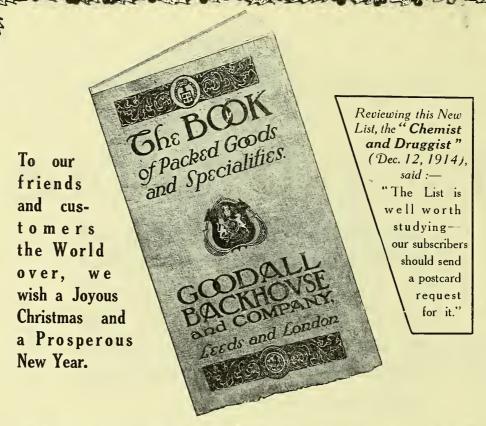
PACKED GOODS

The latest—and the one that will be the seller of 1915—is described on page 115 of the "Chemist and Druggist" Diary, 1915. But we can supply all kinds of Packed Lines. Write to us, and keep business booming in the

NEW YEAR

A Prosperous New Year to all our friends is the wish of—

Boulton Macro, Ltd.
Crayford Wills, Stratford,
London, E.



MORE PROFIT for 1915!

THE more strenuous competition, the higher costs of stock, and the serious reduction of turnover which accompany War, make it plain that you *must* earn unusually high profits in 1915 if your business is to "win through" unscathed.

Your problem is therefore simply—

How can I secure the essential high profits on high-quality goods sold at competitive retail prices?—and the purpose of this List is to give you efficient help in the finding of an answer. In its pages, Profits of 50%, 60%, and even 70% are common.

Send a postcard for the List to-day to

GOODALL, BACKHOUSE & CO., LEEDS.



More than ever

will it be necessary in the forthcoming year to exercise care and judgment in buying and selling.

In order to do this best, do it the "UCAL" way—the way to

SUCCESS AND PROSPERITY.

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HAPPY NEW YEAR

ENSURE this by becoming a Student of the Northern College of Pharmacy. Nothing will make you happier than to succeed in your chosen vocation. That we "train for success" is proved by Poss List of recent Major Exams.—106%!

FULL-TIME COURSE BEGINS JANUARY 4. Write TO-DAY for Prospectus.

NORTHERN COLLEGE OF PHARMACY,

PRINCIPALS: E. GOWER BRYANT, F.C.S., Ph.C. GEO, CLAYTON, F.C.S. (pro tem.)

100-102 BURLINGTON ST., MANCHESTER.

ELT'S COLLEGE,

NORTH FINCHLEY, LONDON, N.

1914

1915

The Principal and Staff wish Students part and present a Happy Xmas and much Success in the coming year.

With which is incorporated the South London School of Pharmacy (founded by Dr. Muter in 1868).

Principal—HENRY WOOTTON, B.Sc. (Lond.)

MINOR-JAN. 6 to the April Examination, £9 19s. 6d.

MAJOR. JAN. 6 to the April Examination, 62 Guineas.

EVENING CLASSES (MINOR and MAJOR).
Fee from 1 Guinea per term.

APOTHECARIES' HALL. Fee 51/2 Guineas per term.

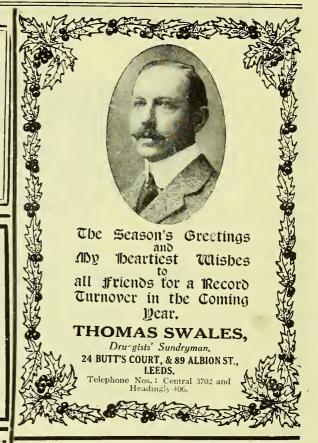
PHARMACEUTICAL EXAMINATIONS.

During the last Session 95 London College Students have been successful—Majors 8, Minors 87.

These numbers refer to Pharmaceutical passes only, Students passing the Preliminary, Apothecaries' Hall and other Examinations are not included.

The number of Students who have passed the Pharmaceutical Examinations from the London College, since its establishment, exceeds that from any other school.

For Prospectus, &c. apply to The Secretary, LONDON COLLEGE OF CHEMISTRY
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THE SCHOOL FOR SUCCESS !!

South of England College of Pharmacy.

186 CLAPHAM ROAD, LONDON, S.W.

Principal—H. LUCAS, Ph.C., F.C.S.
Assistant Masters—H. E. ARCHER, Ph.C.; H. STEGGLES, M.P.S.
EXAMINATION RESULTS—Session 1914.

Out of 68 candidates presented from this College during the past Session 62 have been successful (Majors 5; Minors 55; Irish Licence 1; Apoth. Hall 1) or over 90% of presentation.

New Term commences in the day classes for the MINOR on January 1, 1915; fee, 9 guineas.

Evening Classes (MAJOR and MINOR) are held Monday. Wednesday and Thursday evenings, 6.30-9; fees from 1 guinea.

Wednesday and Thursday,
Benches are now being booked.
For all particulars apply—The Principal.

Telephone: BRIXTON 1728.

Prircipals—G. S. V. WILLS, Ph.C., &c.; P. H. WOODNOTH, M.P.S. Apothecaries' Teacher—Miss M. YOUNG.

JANUARY 5 BENCHES ARE NOW BEING BOOKED FOR APRIL 6

Students should secure their Benches as early as possible.

N.B.—As Candidates will be examined in the new B.P. in October 1915, Students should endeavour to qualify either in April or July next.

WILLS'S UNIVERSAL POSTAL SYSTEM

For the MAJOR, MINOR, PRELIMINARY, APOTHECARIES' HALL, FAIRCHILD, BELL'S SCHOLARSHIP, and all Colonial Examinations.

For Prospectus, Pass List, &c., Call, Write or 'Phone to the Secretary, 402 Clapham Road, S.W.

ALL BRITISH.

Order a line of the wonderful new food-beverage

PLASMON OAT-COCOA

to retail at 1/4 per lb. $(4\frac{1}{2}d.$ per $\frac{1}{4}$ lb. tin) equal to 3 cups a 1d.

NOTE THE LIBERAL PROFITS TO THE TRADE—3d. on each lb. tin—

3d. on each 1d. lb. tin exclusive of our usual discounts.

"LANCET" Report, Oct. 24, 1914.—" Plasmon Oat-Cocoa shows a careful incorporation of the constituents indicated, and when prepared according to instructions gives a very palatable and highly nutritious food. In particular it is reinforced with the tissue-building material of milk. According to our analysis it contains just upon 20 per cent. of milk protein. In addition, there is 15.60 per cent. of fat present derived chiefly from cocoa. The moisture amounted to 6.50 per cent. and the mineral matters to 4.80 per cent. In these last there was an abundance of phosphates. It is a wholesome, sustaining food."

PLASMON CHOCOLATE is supplied as an the BRITISH TROOPS.

PLASMON, LTD. FARRINGDON ST., LONDON, E.C.

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(PURE MILK CASEIN WITH 5% SODIUM GLYCEROPHOSPHATE)

THE IDEAL TONIC AND NERVE FOOD.

A perfectly reliable preparation, identical in composition and otherwise superior to German preparations of the same class at half the price.

In 2 oz. 4 oz. 8 oz. 16 oz. tins. 30/- dozen IN BULK, 2/- PER LB.

ONLY TERMS—Net Cash with Order, ex Warehouse.

FIRST-HAND DEPOT FOR MILK PRODUCTS.
PURE MILK CASEIN. PURE MILK CASEIN c. GLYCEROPHOSPHATES.
SUGAR OF MILK. MILK POWDER.

MALTED INFANTS' FOOD (free from Starch.) (A soluble Maltose Food.)

MILK AND MALT, FULL CREAM, TABLETS AND POWDER.

BEST VALUE—ALL COUNTER SPECIALITIES.

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MANUFACTURER OF SCIENTIFIC INSTRUMENTS AND

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"INALTERABLE" CLINICAL THERMOMETER.

RECENT EXHIBITIONS: 12 GOLD MEDALS—14 GRANDS PRIX.

GAND, 1913, GRAND PRIX; GAND, 1913, HORS CONCOURS.

(French Section) (British Section)







Splendid Seller just now! "SERVICE" FOOT POWDER.

A preparation composed of Boracic Acid and/other Antiseptic ingredients, packed in smartly decorated tins, fitted with dredger tops.

X27 15×27 X27L 21×35

... 1/8 per dozen.

Empty, 7/- and 12/- per gross respectively,





"Baby" Powder

A high-class preparation, packed in elaborate round-cornered tins with dredger top.

On the P.A.T.A. 6d.

4/- per dozen, 3 dozen lots 3/9, 6 dozen lots 3/7, gross lots 39/-

Showcards Supplied.

SHIRLEY BROS., Ltd.

WHITECROSS WORKS, NEWINGTON CAUSEWAY, S.E.

OVER 100 % PROFITE ENSURED & PROTECTED (P.A.T.A.)

for sellers of

Laurence's Hair Dyes

One solution, nine shades.

A first-class article with an excellent demand, created entirely on its own merits, and carrying a first-class profit

Size.	Min	imum ret	ail.	Minimum wholesale.		
1/-	•••	1/-		7/6	3	
1/6	• • •	1/6	• • •	9/~	per doz.	
2/6		2/3	•••	15/-	discount	
3/6	***	3/3		21/- /	1	

SPECIAL BONUS.

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).

Do. 6 doz. do. 8 bottles gratis.
Do. 12 doz. do. 18 bottles gratis.
Equivalent in the case of the size in most general demand, viz. 1/6 size to 4/6,12/- and 27/- respectively.

Sole Proprietors

C. R. HARKER, STAGG & MORGAN, DEVON WHARF.

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SOLUBLE ESSENCES, ESSENTIAL OILS, OIL LEMON.

If you wish to make first-class
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BOAKE ROBERTS' ESSENCES.

Finest Soluble Essences:

Orange,

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COLDEN CARAMEL COLOURINGS, &c. and all sundries.

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Pure Rectified Re-distilled Spirit

FINEST QUALITY S.V R.

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Makers of Industrial and Mineralised Spirit

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TO USERS and DEALERS in METH. SPIRIT and SPIRIT OF WINE.

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The Largest Makers in the Kingdom.

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A. MILLAR & CO., LTD., DUBLIN PURE ORANGE WINE

VINUM AURANTII, B.P.)

Prepared in strict accordance with the Formula of the British Pharmacopæia.

(Wholesale only



"RAPID" SIFTERS & MIXERS

OVER 4,000 working in almost every Trade where POWDERS are Sifted and



almost every Trade where POWDERS are Sifted and Mixed and Lumps Reduced, all being done at one operation and without loss by dust.

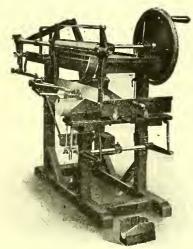
FOR HAND OR POWER.

From 55/- to £90.
CATALOGUES FREE.

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Absorbent Cotton Wool (SURGICAL WADDING).

Complete Plants supplied for manufacture of above.



ROLL CUTTING MACHINE for Absorbent Cotton Wool.

TATHAM, Ld. WM. Rochdale, England.

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HAND FILLING TAPS. FLAT TIN FILLING MACHINES, LOW PRICED BOTTLE FILLING MACHINERY, ACCESSORIES, SPECIALLY CONSTRUCTED FOR RETAIL AND SMALL WHOLESALE ESTABLISHMENTS, to

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BRITISH MADE

Decorated Tin Boxes & Canisters

Manufactured by

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THE "EVEREADY"

OSTAL

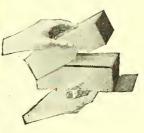
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THE BOX IS SUPPLIED WITH THE LID ON READY FOR OPENING.

JUST TAKE THE LID OFF AND IT IS IMMEDIATELY READY FOR USE.





AFTER FILLING ALL
THAT IS REQUIRED
TO SEAL THE BOX
IS TO PLACE THE
LID ON. ONCE
SEALED IT CANNOT
BE OPENED WITHOUT BREAKING.

READY FOR THE POST, NOTE THE SEPARATE STAMP TAB.



KINDLY WRITE FOR FULLER PARTICULARS TO-



ROBINSON & SONS, LTD.,

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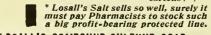
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Wholesale and Export Drug Merchants, Manufacturing Chemists

HULL

Invite the Trade to take up the following valuable P.A.T.A. Protected Lines, bearing a very large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

*L	OSALL'S	SALT	well a	adverti	Prote Retail ised), tins		Dozen Net. 3 6
*	**	"	19	,, ,, 1	oottles in }	1/- 1/6	7/- 10/6



LOSALL'S COMPOUND SULPHUR SOAP.

A valuable emollient medicated skin soap, especially suitable for use in Eczema 1/-

Chemists requiring effective advertising matter for Losall's Salt, &c., will, on application direct to Lofthouse & Saltmer, receive a liberal supply of Dummies, Showcards, Window Slips, Price Tickets, &c., Carriage Paid, whether or no they have an account open with the Firm.

SPECIAL TERMS ARE OFFERED FOR WHOLE OR PART WINDOW DISPLAYS.

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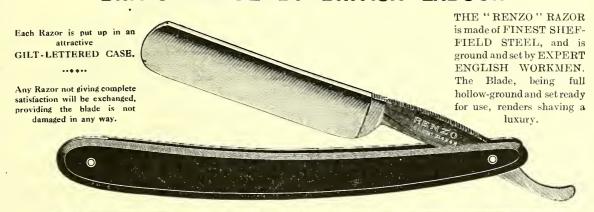
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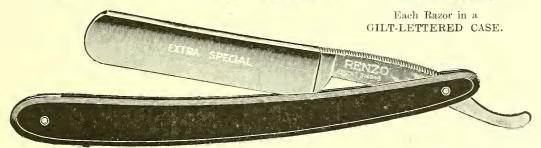
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B.P. or Better

'W	ELLCOME' Brand-	
	Atropine (Pire Alkaloid), B.P.	
- "	Bottles of gr. 60 4/2 each ,, ,, oz. 1/4 29/6 per oz. ,, ,, oz. 1 27/4 per oz	
	,, ,, oz., 1/4 29/6 per oz.	
	,, ,, oz. 1 27,4 per oz	
,,	Atropine Sulphate, B.P.	
	Bottles of gr. 60 3/9 each	
	,, ,, oz. 1/4 26/6 per oz.	
	,, oz. 1 24/6 per oz.	•
,,	Cocaine (Pure Alkaloid), B.P.	
	Bottles of o . 1.8 1.10 each	
	,, ,, 02. 1/2 11/4 per 02.	
	,, ,, oz. 1 10/9 per oz.	•
,,	Cocame Hydrochioride, B.P.	
	Bottles of oz. 1/8 1/8 each	
	Emetine (Fure Alkaloid)	•
,,	Tabase (1 see Alkawa)	
	Tubes of 1 gramme 6/0 each Bottles of gr. 60 21/9 each	
	Emotino Undrobromido	
,,	Emetine Hydrobromide	
	Tubes of 1 gramme 5/6 each Bottles of gr. 60 17/0 each	
	Bottles of gr. 60 17,0 each Emetine Hydrochloride	
,,	Tubes of Laramma 5/6 coch	
	Tubes of 1 gramme 5/6 each Bottles of gr. 60 17/0 each	
	Homatropine (Ture Alkaloid)	
,,	Tubes of ar 5 2/10 each	
	Homatronine Hydrohromide R P	
,,	Tubes of ar 5	
	Tubes of r. 5 Homatropine Hydrobromide, B.P. Tubes of gr. 5 Homatropine Methylbromide	
,,	Tubes of or 5	
	Tubes of gr. 5 20 each Hydrastine (l'ure Alkaloid) Tubes of 1 gramme	
"	Tubes of 1	
	Bottles of oz 1	
	Hydrastine Hydrochloride	•
"	Tubes of 1 gramme 3/10 coch	
	Tubes of 1 gramme 3/10 each Bottles of cz. 1 99/0 per cz.	
	Hyoscine Hydrobromide, B.P.	
"	Tubes of 1 gramme 4/1 each	
	Bottles of gr. 60 13/0 each	
	201110 01 B1. 11 1. 11 10/0 euch	

' W	ELLCOME'Brand—
,,	Hyoscyamine (Pure Alkaloid) Tubes of gr. 5 5/0 each ,, ,, 1 gramme 12/3 each
,,	Hyoscyamine (dextro-Hyoscyamine)
,,	Tubes of gr. 5 5/0 each Bottles of 1 gramme 12/3 each Hyoscyamine Sulphate, B.P.
	Tubes of gr. 5 5/0 each 12/3 each
,,	Physostigmine (Pure Alkaloid) Tubes of gr. 2 1/2 each ,, ,, gr. 5 2/2 each
,,	Physostigmine Hydrobromide (Eserine Hydrobromide)
	Tubes of gr. 5 2/2 each ,, ,, 1 gramme 5/9 each Physostigmine Salicylate
,,	(Eserine Salicylate) Tubes of gr. 5 1/10 each
,,	Physostigmine Sulphate
	(Eserine Sulphate). B.P. Tubes of gr. 1/2 4d. each ,, ,, gr. 1 6d. each
	,, ,, gr. 2 1/0 each ,, ,, gr. 5 1/10 each
,,	Pilocarpine Hydrochloride Tubes of 1 gramme 1/0 each Bottles of gr. 60 3/5 each
	,, ,, oz. 1/2 24/0 per oz
,,	Tubes of 1 gramme 1/0 each Bottles of gr. 60 3/5 each
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SUMMARY.

For interesting German news, see p. 37.

Letters from pharmacy men at the Front are printed on

A statement in regard to the C. & D. Diary, 1915, will be found on pp. 48.49.

The new system of medical certification of insured persons is explained on p. 50.

Australian trade with Germany and some new export prohibitions are reported on p. 36.

Wo have in the press a new B.P. dose-card with tables of metric equivalences. See p. 50.

Mr. George Brownlee, B.Sc., has been appointed Professor of Practical Chemistry to the Pharmaeeutical Society of Ireland (p. 53).

This week we deal with organic chemicals as a factor in the production upon which the British Empire must henceforth rely less on Germany (p. 49).

We complete our epitome of the chemical monographs of the new B.P., including those on alkaloids. A list of corrigenda has been issued by the General Medical Council (p. 51 and p. 52).

Cod-liver oil, castor oil, ammonium earbonate and sulphate, Chinese vermilion, and turpentine have advanced. Japanese mint oil, star-anise oil, copper sulphate, and senega are firmer. Lemon and bergamot oils, otto of rose, Persian opium, sulphur, hydrastis, and linseed oil arc cheaper. Business is slackening off as the year wanes (p. 59). New conditions of export of anise and cassia oils from China are mentioned on p. 58.

OUR NEXT ISSUE.

Owing to Christmas falling on Friday, The Chemist and Druggist for December 26 will go to press a day earlier than usual—viz., on Wednesday, December 23, so that subscribers at home may receive it before Christmas Day. Advertisers and contributors will oblige by expediting their "copy" accordingly. Our office will be closed from Thursday, December 24, at 12.30 P.M., until Monday morning, December 28.

European War.

Playing the Game.—In conversation about the war and its effects on British business, a Mineing Lane merchant remarked to us one day this week: "You can take it from me—and I am one of the oldest sworn brokers in the City of London—that if you had told me on August 4 that we should have eome to December 12 with so little actual loss, I would not have believed it. It's because Mineing Lane has played the game, Liverpool has played the game, we have all played the game—confidence in ourselves and our leaders. We may have a set-back now and then before the war is over, but if we do as we have done, we'll win through." This from a man with fully half a centúry's experience of London business is worthy of record, even though it was casual.

Germans Bombard British Coast.

Some German cruisers crossed the North Sea on December 16 and bombarded Hartlepool, Scarborough, and Whitby on the north-east coast of England. Many people were killed and wounded. The last two towns are unfortified. At Scarborough, the pharmacy of Messrs, Clare & Hunt, in South Street, was wrecked by a shell, and the porter, named Ellis, was killed. Much damage was also done to other parts of the town, but only slight damage to the premises of other chemists. "The Times" states that "One surprising fact was the rapidity with which workmen set about the task of repairing the structural damages. In one small shop, the window of which had been blown out, a placard bearing the words 'Business as Usual' was displayed." We may recall that Scarborough had been fixed on as the renue for next year's British Pharmaceutical Conference, but that owing to the war the Executive Committee had been asked to arrange an alternative meeting-place.

Trading with the Enemy.
Warning to Exporters and Importers.

The Board of Trade inform us that certain traders in this country do not appear to be fully aware of their obligations and responsibilities in regard to trading with the enemy. All traders are now by law expressly prohibited from obtaining from or supplying to an enemy country or an enemy, either directly or indirectly, any goods, wares, or merchandise, and it is incumbent upon them to take every precaution to see that goods which are exported to a neutral country are not ultimately destined for an enemy country, and that goods which they import from a neutral country are not of enemy origin. The Board of Trade do not doubt that reputable British firms are in general careful to avoid infringement of the Proclamations relating to trading with the enemy, but they have reason to fear that in some instances there have been cases of business laxity, and that goods have reached this country or have been exported from it which proper inquiry would have shown respectively to have been of enemy origin or intended for enemy consumption. Any such laxity or want of proper inquiry renders firms liable to the risk of prosecution under the Trading with the Enemy Act, the penalties imposable under which may be either fine or imprisonment, or both, and if the conviction is under indictment, even penal servitude. with forfeiture of the goods in either case.

Belgian Doctors and Pharmacists' Relief Fund. There has so far been collected for this fund a sum of out 2.000L, the greater part of which has been con-

about 2,000%, the greater part of which has been contributed by medical men. The following are subscriptions from the drug-trade in addition to those previously announced:

announced:
Anderson, R., 10s.
Ashton, C. S., 11. 1s.
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Luff, Dr. A. P., 3l. 3s.
Martin, Harry, 5l.

Parker, R. H. 1l. 1s.
Phillips, H. S., 2l. 2s.
Smith, A., 1l.
Stooke, A., 1l. 1s.
Summers, S., 5s.
Toone, Arthur, 1l. 1s.
Umney, Chas., 2l. 2s.
Warren, W., 5s.
Women Pharmacists' Association, 2l. 2s.
Young, E. F., 1l. 1s.

Mr. J. P. Ellerington, whose name appeared in the first list as a donor of 201, has signified his intention of further subscribing 51. monthly for six months. Mr. Harry Martin's donation was not included in the previous list which we published. Further contributions from individual chemists or from Associations (following the lead of the Peterborough Pharmacists' Association) will be acceptable. The donations can be made to the Treasurer, Dr. H. A. Des Voeux, 14 Buckingham Gate, London, S.W., or to Mr. W. J. U. Woolcock, 16 Bloomsbury Square, London, W.C., who has become Joint Hon. Secretary of the fund.

Exportation of Aniline and Picric Acid.

By Order in Council gazetted on December 12 the following amendment, addition, and alterations on the Proclamation of November 10 (C. & D., November 14, p. 34)

(1) That the heading "Picric Acid and its Components" should be deleted from the list of articles prohibited to be exported to all foreign ports in Europe and on the Mediterranean and Black Seas, other than those of France, Russia (except Baltic ports), Belgium, Spain, and Portugal.

(2) That the export of the following articles be prohibited to all destinations:

(2) That the exporto all destinations:

Aniline salt.
Picric acid and its components.

Prohibition of Exports.

Germany.—An imperial decree of November 30 prohibits the exportation from Germany of dissolved rubber, sulphides of phosphorus, and natural and artificial carbonate of soda.

Austria-Hungary.—The Government issued a new decree on November 30, which makes some alterations upon the list of articles the exportation and transit of which was prohibited by decrees of October 2 and October 21. This prohibition has been extended to belladonna leaves and root, all light and heavy coal-tar oils, and cotton-wool. The fats and fatty acids which are not allowed to be exported are whale oils, animal and vegetable tallow, palm oil, palmpith oil, coconut oil, stearic and palmitic acids, degras and elainic acid, and paraffin. elainic acid, and paraffin.

Australian Trade with Germany.

A special report has been prepared by the High ommissioner of the Commonwealth dealing with Commissioner Australia's trade with Germany, which gives a summary of exports to and imports from that country. We note that during 1913 the Commonwealth imported 266,8111. worth of drugs and chemicals from Germany, compared with 235,903l. in 1912, and 212,045l. in 1911. Details are as follows:

are as rollows.					
		1910 £	1911 £	1912 £	1913 £
Pharmaceutical Produc	ťs:				
Cream of tartar		1,797	1.805	4,692	18,714
Insecticides, etc		8,999	10,809	11,674	12,649
Medicines		3,639	7.094	8,294	8,757
Oils, essential		5,293	7.600	10,773	9,981
Other drugs		52,161	65,291	59,235	71,044
Industrial chemicals:		02,101	00,201	00,200	11,077
Acids—					
		E 010	1,841	0.071	16 907
Tartaric		5,812		9,271	16,893
Other		4,313	3,949	9,946	8,450
Calcium carbide		8,010	10,864	6,488	5,133
Dyes		19,116	20,755	20,243	21,013
Perfumery		8,259	10,413	11,328	12,402
Potash, etc		1,076	1,712	1,513	1,338
Potassium cyanide		19,227	19,088	20,015	16,956
All other chemicals,	etc.	9,320	10,615	11,092	11,935
Fertilisers		38,772	40,209	51,339	51,546
Total		185,794	212,045	235,903	266,811
			,		

The above figures show that Germany was doing a large and increasing business with the Commonwealth in chemicals and drugs, but the total is small as compared with the imports of similar products from the United Kingdom. As regards the total trade of the Commonwealth, the exports to Germany in 1912 were valued at 7,441,2401. (average 1907-11, 6,944,9411.), being 9.41 per cent. of the Commonwealth's total exports. On the other hand, the total imports from Germany in 1912 were valued at 5,144,6132, (average 1907-11, 3,721,467).) or 6.58 per cent. of the total imports into the Commonwealth-a big increase on the above quinquennial period.

Pharmaceutical Roll of Honour.

Non sibi scd patriæ.—CICERO. THIRTEENTH LIST.

THIRTEENTH LIST.

BAILEY, — (son of Mr. T. H. Bailey, chemist, Plymouth), R.A.M.C.
BOWLING, Captain W. H., chemist and druggist, Pembroke Dock, 4th Batt. The Welsh Regiment. Captain Bowling has just been promoted to that rank.
DEVON, Herbert Charles (son of Mr. F. C. Devon, of F. C. Devon & Co., 5 Great Tower Street, London), 5th Batt. City of London Regiment (London Rifle Brigade).

LUNAN, William (apprentice with Mr. R. Robertson, chemist and druggist, Dunfermline), 7th Batt. Royal Highlanders (Black Watch).

SHAW, Bernard (son of and assistant with Mr. W. A. Shaw, chemist and druggist, Harborne), 15th (Service) Batt. Royal Warwickshire Regiment.

Letters from the Front.

Mr. John H. Maunder, pharmacist, Teignmouth, is lieutenant-quartermaster in the 24th Field Ambulance, 8th (Wessex) Division of the British Expeditionary Force in (Wessex) Division of the British Expeditionary Force in France. He wrote thus to Mr. H. W. Harrie on Decem-France.

ber 1:

"I don't think there are many master-pharmacists out here. We are now billeted in a convent school—not a bad place, but not sufficiently large for a hospital, as we are getting so many cases of frostbite in the feet. It seems a pity, disabling so many men when they themselves are as well as ever, but quite crippled. Poor devils! they have a most awful time in the trenches; when it is wet they are up to their eyes in mud, and other times they are freezing. But the country, I must repeat, are doing their best for 'Tommy' by the issuing of good warm underclothing, skinfur jackets, etc. To-day the King paid us a visit, so we had to turn out, and all men who were not in trenches to line the gutters. The first car was driven by the Prince of Wales himself. The men go in trenches for three days, then out three days, and so on. . . We get the daily papers one day old; it's grand, and they are sent right to the trenches and hospitals. Dr. Howard Stewart (Bournemouth) is attached to us; joined us at ——. The weather has again turned quite muggy. The fellows that came from foreign stations feel the cold weather very much indeed. How awfully sad was the death of dear old Lord Roberts. At one town we entered at night he had only been there in the morning visiting an Indian hospital. It's very funny, this life; if one doesn't keep a sharp account of days, you lose one or two in a week. At times we have to refer to papers to find out the day. This letter will not go to-night, so will finish off to-morrow.

December 3.—I quite intended to have finished this letter yesterday, so will do so now and post to-morrow. We had the King through here yesterday and Prince of Wales, and lots of brass hats, and all troops out of the trenches lined the streets. He saw them looking quite different from what he does when they line the streets of London, etc. Bailey son of Mr. T. H. Bailey, pharmacist, Plymouth] sends his kind regards to you."

We have also seen a letter which Mr. R. Robertson, chemist, Dunfermline, has received from hi "I don't think there are many master-pharmacists out

We have also seen a letter which Mr. R. Robertson, chemist, Dunfermline, has received from his former apprentice, Mr. R. Condie, R.A.M.C., who is now serving

apprentice, Mr. R. Condie, R.A.M.C., who is now serving in France. He says:

"Personally, I think the final victory will have been won before the recruits who are in training at present are required at the Front. I have been out here practically three months now, and only did my first bit of dispensing about three weeks ago. . . There are three dispensers attached to the hospital, which is able to deal with about 500 wounded at one time. One of the two others is a Regular Army compounder, and the other is a Major man from Martindale's, London. We take turn about of night duty, which means that about every third night we get, on an average, means that about every third night we get, on an average, nearly three hours' sleep. Very often the dispenser off duty is sent for to help in the operating-theatre. The usual duties there are sterilising instruments and handing them



MR. R. CONDIE.

to the surgeon as he requires them. . . . I have already seen a good bit of France, but would like to see a bit of Germany before coming back."

The portrait that we give of Mr. Condie was taken when he enlisted, and a copy of the postcard was sent to Mr. Robertson as an intimation of the fact. He was studying at Duncan's at that time.

Personalia.

Lieutenant Eric P. Kingzett, 4th Queen's Territorials, assistant managing director and works-manager of the Sanitas Co., Ltd., has been promoted to the rank of captain

n his regiment.

Private John Lewis Roberts, 7th Welsh Cyclist Corps, stationed at Eyemouth, was found drowned in Eyemouth Harbour on December 14. It is believed that he either slipped or was blown over the pier. Private Roberts was thirty-one years of age, and was a chemist's assistant in Swansea prior to enlistment. Captain Edgar Robson, South Lancashire Regiment,

Captain Edgar Robson, South Lancashire Regiment, whose name appears in a recent casualty list as having died from wounds in France, was formerly a member of the laboratory staff of Joseph Crosfield & Sons, Ltd., Warrington. Captain Robson served in the South African War with the Volunteer Service Company of the South Lancashire Regiment, and, accepting a commission in the Regular Army, saw service in the Transvaal, Zululand, Natal, and in India. He was thirty-six years of age.

Miscellaneous.

Messrs. Cadbury, Bournville, are sending a box of chocolate to each of the wounded soldiers and sailors in British hospitals as a Christmas gift.

The American bar of the Casino at Le Touquet has been converted by the Duchess of Westminster into a dispensary under the charge of a sergeant dispenser.

MANCHESTER RELIEF FUND.—The employes of Messrs. Jewsbury & Brown, Manchester, have contributed 10l. 4s. to this fund, and a similar sum has been contributed by the

Sir Donald MacAlister, K.C.B., President of the General Medical Council, has received a letter from Surgeon-General Sir Alfred Keogh, K.C.B., which contains the following passage: "I think, with you, that the senior student is best fulfilling his duty to the country by getting his degree, and then joining the Army. The need for young qualified men will become great, and I should regret that the supply should be diminished."

Japanese Drugs for Russia.

Japanese Drugs for Russia.

A report sent from Yokohama by the American Consul states that since the beginning of September many large orders for chemicals and drugs have been received in Japan from Russia. These articles were formerly obtained in Germany, and more recently from England and the United States. The report states that "the demand for iodine-compounds, acetic acid, and other chemicals has been particularly large, and they are being exported by Kobe firms to Russia."

News from Austria and Germany.

SURGICAL DRESSINGS.—In Austria paper substitutes for surgical dressings are replacing the real articles

CONTRABAND OF WAR.—Wood, wood-tar, charcoal, sulphur, and sulphuric acid are now regarded in Germany as contraband of war.

German Sulphuric Acid.—The general condition of the sulphuric-acid industry is unsatisfactory, remarked the "Chemiker Zeitung" on December 5.

THE GERMAN SICK-CLUB arm has stretched to Belgium. Düsseldorf firm has got the contract for reconstructing the fortifications, and the German workers employed on the job have to be insured under the German law.

CONFISCATION OF FRENCH TURPENTINE OIL.—The Home Department of Mecklenburg-Schwerin has issued a decree requiring the municipal authorities to confiscate all stocks of French oil of turpentine exceeding 50 kilos

AUSTRIAN PHARMACISTS have performed their professional and patriotic duties well during the war, said Dr. Hans Heger in a lecture on "Pharmacy and the War" delivered to the Austrian Pharmaceutical Association on November 14.

STERILISATION OF WATER.—For this purpose antiformin and hydrochloric acid are recommended by Dr. Rhein. As antiformin is a solution of sodium hypochlorite, the process is just that recommended by Dr. J. C. Thresh, of Chelmsford.

GERMAN INTERESTS ABROAD.—A Central Board has been established in Berlin to look after German interests in foreign countries. The Board will collect, elassify, and submit to the Foreign Office all claims for indemnification for losses due to the war of German firms, societies, and private persons.

ARZNEITANE, 1915.—Owing to the abnormal conditions prevailing in Germany, the Imperial Board of Public Health

will not publish a new official price-list, but a supplement to the one at present in force will be issued. "Deutscher Apotheker Verein" will publish the "zungs-Taxe zur Deutscher Arzneitaxe" as usual.

TABLONETTE is the nearest that an enterprising manufacturer can get to "Tabloid," and he (Dr. Max Weitemeyer, Erfurt) wants every apotheker in Germany to buy his tablonette, instead of Messrs. Burroughs Welteome & Co.'s products. The "Pharm. Zeit.' protests against any monopoly, which it considers both tablonette and tabloids to be.

Antitetanus Serum.—A Government decree has been published authorising the dispensing during the war of 10-c.c. quantities of liquid antitetanus serum (2-fold) and 1 gram of dried serum (20-fold), provided they bear a clearly visible inscription, "Only for prophylactic vaccination." These scrums must be examined by the Royal Experimental and Therapeuties Institute, Frankfurt a.M.

Why Ster Energy An expension was founded in

perimental and Therapeutics Institute, Frankfurt a.M.

WAR SICK FUNDS.—An organisation was founded in
Stuttgart last month whose object is substantially that
provided in England by the Prince of Wales' National
Relief Fund—namely, nedical attendance and treatment of
the wives and children (not exceeding fourteen years of
age) of soldiers and persons out of employment consequent
on the war. The money is provided by the municipality,
which contributes 10 prennig for each inhabitant, and a
similar amount is given by professional societies, while the
general sick-clubs contribute 30 prennig for each member.

Robert Mayer. the discoverer of the law of conserva-

general sick-clubs contribute 30 prening for each member.

ROBERT MAYER, the discoverer of the law of conservation of energy, was born on November 25, 1814. The "Chemiker Zeitung" commemorated the event with a special article by Dr. E. O. von Lippmann. Mayer qualified as a medical man, but pursued chemistry, and was unkindly treated by his fellow-scientists. His own family regarded him as a lunatic, but during the latter period of his life (he died on March 28, 1878) he had the satisfaction of knowing that his discovery of the law was generally acknowledged. generally acknowledged.

generally acknowledged.

Professor Otto N. Witt, writing on "The German Chemical Industry and the War" in the "Chemiker Zeitung," charges the Japanese with great ingratitude, in making use of knowledge acquired from the Germans, to wage war upon Germany. "They are indebted to us for all they know of chemical and pharmaccutical science," said Professor Witt. Commenting on this statement, the "Pharmaceutische Weekblad" says: "In this respect we are all much indebted to the French, who have founded modern chemical and pharmaceutical science." This remark of the "Pharmaceutische Weekblad" has been quoted by the "Apotheker Zeitung," and as a result Hermann Schelenz (Cassel), the well known author of "Geschichte der Chemic," has written an article on French chemistry and pharmacy, in which he says that, properly speaking, it is impossible to speak of the foundation of such an extensive science as being associated with any one nation.

der Chemic," has written an article on French chemistry and pharmacy, in which he says that, properly speaking, it is impossible to speak of the foundation of such an extensive science as being associated with any one nation. Cholera Measures in Austria—Ha the danger of a cholera epidemic among the civil population of Austria-Hungary is increasing, renewed warnings are published with explicit instructions about the precautions to be taken. The latter include inoculation with cholera-scrum. As to the remedies, bolus alba and animal charcoal still hold the Austrian field, having proved effective. Boxes, each containing 200 grams of the charcoal, are sold at 5 kreuzer. Five grams is the dose, taken once or twice a day, suspended in water. The latest report as to the prevalence of cholera is to the effect that it is becoming serious. The charcoal preferred for the treatment is made from dried cakes of bullocks' blood. It is stated that with this as a basis Professor Wicchowski and his assistants have succeeded in producing a product surpassing in quality that of Merek and Kahlbaum, and large quantities are now manufactured. It promises to be an excellent remedy in the treatment of cases of dysentery and of cholera in Galicia.

Salvarsan "Made in England".—This is the title of an article by Professor Dr. J. Schwalbe in the "Deutsche Medizinische Wochenschrift" of October 22, in the course of which he says: "In harmony with the motives which have driven England to a war upon us, its Government, in spite of its sensibility about the violation by Germany of Belgium's pseudo-neutrality, has taken a series of social measures which characterise themselves as violation of the law of nations, and which can only be eonsidered as brutal robbery." The Professor proceeds in a virulently offensive manner to describe the objects of the suspension of patents and trade-marks, and continues: "The firm of Burroughs Wellcome & Co., well known among German physicians, soon proved to be one of the firms which dispose of the necessary do

of the Höchster Farbwerke, and for the right to sell their products under the names salvarsan and neosalvarsan. Before the Board of Trade the English representative of the Höchster Farbwerke has defended as well as possible Before the Board of Trade the English representative of the Hochster Farbwerke has defended as well as possible the interests of this firm, but, as we are informed by the Hochster Farbwerke themselves, it is not very likely that the decision of the Board will be unfavourable for the 'native' firm. The intention of the English firm is not only to provide their countrymen during the war with this remedy (which appears to be indispensable in England too!)—the point of view which was always put in the foreground in the defence of the English patent-robbery—but a permanent prejudice to the German rights was aimed at; for the firm has declared with English shamelessness that it will only be able to take the preparation in hand upon condition that Burroughs Wellcome & Co. will be the only firm in England to which the licence is granted for the whole time for which the patent was granted. You will remark that the leitmotiv of the English ethics in theory and in practice, 'Right or wrong—my country,' has largely been extended on account of the war. In case we really were the barbarians we are called, particularly in the English Press, we could only wish that the Board of Trade would have sufficient lack of understanding to consent to the request of the firm of Burroughs Wellcome & Co.' The learned editor returned to the charge on November 5, when he heard of the decision of the Board of Trade and the conditions under which Burroughs Wellcome & Co. obtained the licence, adding: "So English piracy has not confined itself to the sea, but also shows itself on the pharmaceutical market. In the name of justice and the 'Krämer-säckel' [bagman's satehel], German physicians on their part will know how to behave with regard to English preparations, especially those of the firm Burroughs Wellcome & Co.; also after the var."

Belgian Refugees.

Perhaps our most interesting visitor this week has been Mr. PERHAPS our most interesting visitor this week has been Mr. Rodolphe De Roubaix, of the firm of De Roubaix & Cassiers, Merxem, Antwerp. Mr. De Roubaix is living at Lee, S.E., having had (like most of his compatriots) to take his family out of Antwerp just prior to the final bombardment. So far as he knows, Mr. De Roubaix's factory at Merxem is still intact, and his private house also, but his partner's house was shattered by a bomb from a Zeppelin some weeks ago

weeks ago.

Mr. De Roubaix, who speaks English perfectly, told us that his firm did a large business with South America in sheep-dips, disinfecting-fluids, petroleum-jellies, etc., all of their own manufacture. He knows South America well, having gone there annually on business trips for the past six years. During his enforced idleness nothing would please him better than to take a business trip to South America as representative of a British firm. Besides English (and, of course, French) Mr. De Roubaix can sneak and

please him better than to take a business trip to South America as representative of a British firm. Besides English (and, of course, French), Mr. De Roubaix can speak and correspond in Spanish, Dutch, and German (if necessary, but not for choice). This may interest some export house, who will find further particulars in the Supplement.

A communication has reached us from another Belgian manufacturer, Mr. Ch. Creton, formerly of Termonde. Mr. Creton informs us that all that he had has been stolen or burnt by the Germans. To make matters worse, just prior to the German occupation he had made all arrangements for laying down an installation for producing chemical manures by a new process. If there are any capitalists in the drug or chemical trades here willing to spend 10,000? on plant, Mr. Creton predicts a fortune for them by his process. Meanwhile he would like some employment in a wholesale or manufacturing house. Mr. Creton is residing for the present at Heatherley, Berks.

From Edgbaston we have a letter from Dr. C. Pector, formerly assistant in the Government Laboratory of Hygiene at Bruges. He holds diplomas as a D.Sc., as a pharmacist, and as a bacteriologist, and he is open to undertake analytical work of all kinds, including bacteriological analyses. He has a good knowledge of English.

Archdeacon Beresford Potter, of Rake Manor, Milford, Surrey, is interested in Mr. Emile Dol, a well-known Antwerp nharmacist, and would like to hear of some employment for him, preferably in the South of England.

Mr. E. Halewyck, who was in business in Ostend for twenty-five years, is now a refugee in Exeter. He is fortycight years of age, in good health, and is anxious for some occupation.

The Belgian Chamber of Commerce, 24 St. Dunstan's

occupation.

The Belgian Chamber of Commerce, 24 St. Dunstan's Buildings, St. Dunstan's Hill, London, E.C., inform us that they will be glad to help British manufacturers to obtain suitable representatives from among refugees.

ENGLISH AND WELSH NEWS.

Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.

Brevities.

The Halifax Bench has transferred the off wine-licence-held by Mr. Sutcliffe Shaw, Coldwell Hill, Staniland, to Mr. S. Thorpe Shaw, chemist and druggist.

Greenwich Borough Council has been recommended to reappoint Mr. Arthur Edgeome Brown, B.Sc., F.I.C., 37 Lombard Street, E.C., as public analyst to the borough, under the same conditions as formerly and subject to the approval of the Local Government Board.

Eight cases of poisoning have occurred during the week. in four of which the poison was taken with suicidal intent. The substances involved were carbolic acid, cyanide of potassium, laudanum, spirit of salt, trional, and one unknown poison. Two persons died under anæsthetics.

Christmas Holidays and Stocktaking.

The following notices are additional to the announcements in the C. & D., December 12, p. 38:

ments in the C. & D., December 12, p. 38:

The Chemist and Druggist offices, 42 Cannon Street,
E.C., closed from Thursday, December 24, at 12.30 p.m., toMonday, December 23, at 9 a.m.

Thomas Tyrer & Co., Ltd., Stratford, E., are closing
on Friday, Saturday, and Monday, December 28, because
(they say), owing to the extreme pressure since the war,
it is only fair to give the workers a little extra rest.

Wright, Layman & Umney, Ltd., Southwark Street,
London, S.E., closed on Friday and Saturday, December 25
and 26, and for stocktaking on Wednesday and Thursday,
December 30 and 31.

Wellcome Historical Medical Museum

A special exhibit of objects and relics associated with war has been arranged at the Wellcome Historical Medical Museum, Wigmore Street, London, W. The exhibition already contained a number of interesting articles associated with Nelson and Wellington, and these have been augmented by loans, and the whole collected together in one of the halls, forming one of the most fascinating exhibits of the kind ever seen. The evolution of bulletextractors, detectors, and splints is shown, and there is a collection of amputation knives and saws, modelsof stretchers, army medicine-chests, and engravings connected with ambulance work. Many important relics are shown of Florence Nightingale and of Dr. Gillespie, Physician-General to Nelson's fleet. A recently received exhibit consists of two postcards from a R.A.M.C. sergeant. These are coloured sketches made with a brush consisting of a pledget of cotton-wool tied on a sharpened match, and the colours employed were tincture of iodine, Condy's fluid, blue and red ink, and a blue pencil. The exhibition is open daily, and admission is free to pharmacists.

Birmingham.

Dr. John Hall Edwards, the radiographer, has been gazetted temporary major in the Royal Army Medical Corps.

At the annual meeting of the Birmingham Medical Mission complaint was made as to the increased cost of drugs, which was described as "alarming."

At a meeting of Wolverhampton Town Council on-Monday, Sir Charles Mander, Bart., was re-elected a member of the Court of Governors of Birmingham University for three years.

Messrs. Cadbury have agreed to purchase the products of the Colonies of St. Thomé, now that improved labour conditions prevail. They received a visit this week from the Anglo-Portuguese Commercial Deputation on the subject.

An unusual effect of the taking of two doses of ammoniated tincture of quinine has been noted by a Birmingham chemist. For two days afterwards he still tasted the bitterness in his mouth, which he supposed was due to the presence of the alkaloid in his saliva.

Manchester.

The Corporation has passed plans for extensions to the works of Levinstein, Ltd., chemical-manufacturers, Delaunay's Road, Crumpsall.

The Manchester Education Committee has co-opted Sir Walter Royse, Dr. Charles Dreyfus, Mr. F. W. Fellows, and Mr. I. Levinstein as members of the chemical-trade on the School of Technology Sub-Committee.

Among the drugs examined by the Salford public analyst during the past quarter were four samples of solution of ferric acetate and twelve prescriptions containing ferrie acetate. Two samples of the solution were deficient in iron to the extent of 20 and 27 per cent. respectively. Of the prescriptions seven were found to be from 350 per cent, in excess to 45 per cent. deficient in iron.

Sheffield.

About 8,000 dependants of men serving in the Army and Navy are taking advantage of the offer of the local chemists to undertake the free dispensing of medicines under the national scheme.

The Sheffield Pharmaceutical and Chemical Society has arranged for the following papers to be given during the winter session; January meeting, "Colour and Colour-perception," by Mr. Thompson; February meeting, "Coal and Coal Tar and their Relation to the Pharmacist," by Mr. J. F. Simon, Ph.C.; March meeting, "Dispensing Notes," by Mr. Harold Wyatt, Ph.C.

Contracts for Drugs, etc.

The following contracts for articles in which our subscribers are interested have been concluded:

Bishop's Stortford Guardians.—Messrs. Holland & Barrett, for Benger's Food, yellow soap (29s.), and soft soap (15s. 3d.); G. T. Cox & Son, for Sanitas soap (29s.) and alkali (6s. 9d.); Oxo, Ltd., for Oxo (3s. 11d.); and Parrotts, Ltd., for Scott's Emulsion and crude Sanitas (43s. 8d.)

Braintree Guardians.-Mr. H. Jenkins, chemist and drug-

Bramtree Guardians.—Mr. H. Jenkins, chemist and druggist, Braintree, for disinfectants.
Cranbrook (Kent) Guardians.—Mr. A. J. Gray, chemist and druggist, Hawkhurst, for medical appliances.
Eton Rural Council.—Messrs, Griffith & Walden, chemists and druggists, Slough, for disinfectants.
Islo of Wight Guardians.—Millidge & Son, pharmaceutical chemists, Newport, for drugs and medicines.
Longton (Staffs) Cottage Hospital.—Mr. R. Prince, Ph.C., Longton, for drugs; J. Robinson & Sons, Ltd., Chesterfield, for dressings.

Marylebone Guardians.—Corbyn, Stacey & Co., Ltd., for a fortnight's supply of drugs (351.); S. Maw, Son & Sons, for druggists' sundries for the same period.

Walsall Town Council.—Sanitas Co., Ltd., for annual

supply of brown bar soap and liquid disinfectant.

supply of brown bar soap and liquid disinfectant.

In view of the present conditions and the uncertainty as to future prices, tho Works Committee of the Metropolitan Water Board has recommended the Board to continue for six months the existing contracts with the Sanitas Co., Ltd., for the supply of toilet-soap, scouring-soap, and carbolio soap; with B. Laporte, Ltd., for soap-powder; and with J. E. Sharp & Son for disinfectants.

The Public Health Committee of Camberwell Borough Council, having considered the best course to adopt with regard to the annual contracts expiring on March 31, 1915, has instructed the Borough Engineer to inquire whether the present contractors for soaps and disinfectants will be prepared to extend their existing contracts for a further period of twelve months. The Works Committee has recommended the Council to extend the present contract with Livett, Frank & Son, Ltd., for soaps, for a further twelve months, and to invite quotations for the supply of toilet-brushes from time to time as required. brushes from time to time as required.

From Various Courts.

At Walsall, on December 14, a man named Frederick Sartin was sentenced to four days' imprisonment for breaking a plate-glass window at the pharmacy of Mr. Henry George Carter, 58 Stafford Street, Walsall. He was also ordered to pay the damage-41. 19s.

Mr. John Wyatt, chemist and druggist, Barnes, was a witness in an inquiry by the Magistrates at Mortlake on December 16 as to an alleged nuisance from the odours emanating from a fried-fish shop. He spoke as to the symptoms which customers had described to him as being caused by the smells from a fried-fish shop.

IRISH NEWS.

Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items-

Brevities.

Mr. J. Richardson, registered druggist, 17 Cromac Street, Belfast, is retiring from business

The Management Committee of the Sligo County Infirmary have appointed Mr. P. Cagney, Ph.C., dispenser to the infirmary

Mr. Robert Cambridge, J.P., registered druggist, presided at a meeting in Carrickfergus last week, called for the purpose of raising funds for the Ulster Motor Ambulance Fund.

At Castlewellan, co. Down, last week, a woman named Eliza Rice was sent to gaol for two months for having stolen a box of pills from the shop of Mr. S. J. Smylie, registered druggist.

Mr. Arthur E. Hawker, proprietor of Corvusine, the popular seed-dressing, 59 Mark Lane, London, E.C., has opened an Irish branch in Market Buildings, 17 Fade Street, Dublin. This will enable customers in Ireland to get express delivery of Corvusine henceforth.

A complaint having been made regarding the quality of the clinical thermometers supplied to the Newry Guardians by the contractors, Fannin & Co., Dublin, the matter has been investigated. The medical officer has since explained that his complaint is that the thermometers have no magnifying index.

Contract Prices and the War.

The circular letter from Messrs. Boileau & Boyd,
Dublin, was read at the last meeting of the Listowel
Board of Guardians, in which it was pointed out that an increase in the price of certain drugs has been caused through the war, and suggesting that a concession might The Guardians expressed the view that it was reasonable to suppose that the firm had stocked a supply of these drugs before the war broke out, and consequently had not suffered. They declined to entertain the application.—The same firm wrote to the Kilkenny Board of Guardians relative to certain drugs supplied to the Freshford dispensary, intimating that the original invoice sent with them had been priced according to the contractrates. Since the war, however, the prices of several of the items had increased materially. On completion of the contract it was the intention of the firm to ask for pay-Clerk said the prices of a good many of the articles had increased, but it was optional with the Guardians to make good the difference. The Mayor suggested that the letter be marked "Read," and the final consideration deferred till the contract expired. This was agreed to.

SCOTTISH NEWS.

Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items,

Brevities.

In response to an inquiry from the Royal Society, the Council of Dundee University College have agreed, with the concurrence of Professor McKenzie, to place the chemical laboratories of the College at the disposal of the Society for the preparation of drugs and medicaments required for the Army and Navy.

Aberdeen and the North.

Amongst the public bequests made by the late Mr. William Robbie, accountant, Aberdeen, is 150% to the Aberdeen Dispensary.

Mr. William Main, chemist and druggist, has taken over the business of the late Mr. A. Richmond, chemist and druggist, 176 High Street, Elgin.

Professor Traill, a former examiner in botany on the Scottish Board of Examiners, has been elected President of the Aberdeen Branch of the Royal Scottish Arboricultural Society.

The pharmacy classes held at Gordon's College, Aberdeen, have been closed until after the Christmas vacation on account of the indisposition of the lecturer. Mr. Gilbert Simpson, Ph.C. The time now lost will be made up at the end of the session.

The Banffshire Branch of the Red Cross Society is appealing to the ladies of the county to help in supplying to convalescent soldiers leaving the local hospitals complete kit-bags, including, among other things, soap, comb, foot-powder, and mercurial ointment.

Edinburgh.

Mr. J. F. Reid, F.I.C., who has been a chemist with Mcssrs. J. F. Macfarlan & Co., Edinburgh, for over six years, leaves shortly to take up an appointment with the Avon Indiarubber Co., Ltd., Melksham (Wilts).

A highly successful lantern-lecture on "The Battlefields of France was delivered by Dr. Inglis Clark on December 11 in aid of the Lord Provost's Fund for providing comforts for the troops. The slides exhibited were chiefly in "nature tints," and the lecture proved extremely interesting. After clearing expenses, a sum of 117l. will be available for the Fund.

The levy per pharmacy under the local relief scheme for the supply of free medicines to dependants of sailors and soldiers has worked out at 1s. 6d. for the month of November. Chemists are asked to note that invalid and infants' diet foods, proprietary articles, and medicated wools and gauze tissues, in quantities greater than required for dressings, are not allowed under the scheme.

Fifeshire.

East Coast chemists' shop windows are assuming a Christmas-like appearance. Safety-razors, hair-brushes, shaving-sticks, and first-aid cases are prominently shown.

Prescription-books for free medicines under the National scheme have now been issued to necessitous dependants of soldiers and sailors in the county. services of chemists and druggists in connection with the scheme are favourably commented upon.

The sequel to the pro-German riot in Leven (C. & D., August 22, p. 40) is that the Town Council has refused to admit the claim of Mr. John Buchanan, chemist and druggist, for damage done to his windows. There is growing discontent at the decision locally, and it is still hoped that the modest claim of 10l. will be paid.

Glasgow and the West.

At a meeting of the University Court, on December 10, Principal Sir Donald MacAlister submitted a draft ordinance for the institution of a degree in Science and Applied Chemistry, and said that the diploma in Applied Science granted by the Technical College took four years to obtain, and it is hoped that the degree would be something higher.

A fire, which originated in rather an unusual manner, occurred recently in the warehouse of Messrs. James Taylor & Co. A mixture of powders, containing potassium chlorate, which the firm have prepared for several years without mishap, suddenly exploded when being mixed, setting fire to some straw. The staff succeeded in preventing the outbreak from spreading, and it was extinguished by the fire-brigade before any serious damage was done.

The late Mr. Pfeiffer, of Lorimer & Moyes, Ltd., served his apprenticeship with Mr. Cook, Wigton, and after it went to Glasgow as assistant to Mr. Miller, Hyndland. Some time afterwards he became representative to Messrs. Munro, McLaren & Sutherland, and left them to fill a similar position with Lorimer & Moyes, Ltd., ultimately becoming a director. Mr. Pfeiffer was held in very high esteem by his co-directors and the members of the staff.

The Thrums Town House.

For eighteen years the post-office at Kirriemuir has formed part of Mr. David Buchanan's pharmacy in the Town House Buildings in High Street, but the business has outgrown the accommodation. A larger building has now been built for the post-office work in Reform Street,

and Mr. Buchanan, who has been postmaster for thirty years, will continue to superintend it, while Miss Lizzie Buchanan, chemist and druggist, will take charge of the The opening ceremony took place on Decempharmacv. ber 14, when cake and wine were provided by Mr. Buchanan. During the proceedings the Provost of the Burgh paid a high tribute to the ability and invariable courtesy of the "Postmaster of Thrums."

FRENCH NEWS.

(From the "C. & D." Paris Correspondent.)

Professor Délépine, the junior Professor of the Paris School of Pharmacy, is stationed at Nantes, where he serves as pharmacist at the Central Army Sanitary Service Pharmacy. Quite a number of British soldiers are at Nantes, so it is possible that the Professor is dispensing for khaki-clad "Tommies" as well as for their red-trousered Allies. Mrs. Délépine and their family are with him.

BULLET-FINDER.—The "Journal" says that in the course of a lecture at the Conservatoire des Arts et Métiers on December 11 Professor Violle stated that the Hughes balance is now being used to locate bullets in The Hughes balance is composed of two bobbins wounds. connected so as to make a balance between their primaries. and secondaries. When the balance is established, the telephone apparatus which is fixed between them makes: no sound. but when one of the bobbins comes near a metallic body, the equilibrium is destroyed and the telephone vibrates.

"OWNER'S RISK" IN WAR-TIME.-When the French "OWER'S RISK" IN WAR-TIME.—When the French railways resumed goods-traffic, after having been closed three weeks for mobilisation-purposes, certain railways only accepted goods for carriage "without responsibility," and even inscribed this notice on the booking-officatickets (lettres de voiture) and receipts. It is now pointed out that this is a bit of bluff, as under the Exercic law companies are French law carriers, including railway companies, are responsible for loss, except in cases of force majeure and bad packing or other contributory negligence on the part of the consignor. The companies have now modified. their declaration on printed and signed receipts.

M. CHARLES BUCHET, director of the Pharmacie Centrale de France, has presented to the Historical Museum of the Paris School of Pharmacy a four-page letter addressed on June 6, 1794, by Pierre Bayen, Apothecary-Major of the Military Hospitals, Camps, and Armies of the First Populais to Citizen County and Armies of the First Republic, to Citizen Guéret, Apothecary-Major of the Army of the Moselle, at Metz. Guéret was then but thirty-eight, and died of typhus a few months later. Bayen was sixty-nine, but, far from profiting by his age-and rank, he addressed his subaltern as "comrade" and "friend." His letter, written during war-time from Paris, and addressed to a man at the Front, is thus of special interest at present, and it is curious to note that similar conditions prevailed then as there are now, pharmacists in distress especially.

ASSISTANT PROFESSORSHIPS.—A decree has been issued regulating and altering the mode of appointing assistant professors in the French Mixed Faculties of Medicine and Pharmacy. The competition for assistant professorship, in Faculties of Medicine is divided into twenty-one sections, the last being pharmacy and materia medica.

EFFECT OF WAR ON CONTRACTS .-- M. Perrot has studied, on behalf of the Paris wholesale Druggists' Association, the question of the cancellation or modification of contracts by the war. In his opinion it is wrong to supposethat war cancels existing contracts. It only constitutes force majeure when it causes some particular and special circumstance which interferes with the execution of the contract, and the burden of proof falls on the contractor... For instance, the buyer cannot refuse goods unless it is proved that the interruption of communications renders. it absolutely impossible for him to receive them. A temporary delay of delivery does not cancel a contract: it

simply defers its execution. The increase of price of goods is of little importance, so long as the advance does not render it impossible for the vendor to procure them. But where these questions of appreciation arise a Court is hardly likely to insist on the execution of a contract which would entail heavy loss on one of the parties in consequence of abnormal conditions, and will seek to reconcile the principles of justice with the strict letter of the law. In the present war are some conditions which did not exist in 1870-71, notably the mobilisation of the whole eligible adult male population.

A Plea for the French Military Pharmacist.

A Plea for the French Military Pharmacist.

M. Paul Lordon, writing in the "Petit Journal," complains of insufficient recognition of the status of the dispensing pharmacist in connection with the provisory hospitals, which have the benefit of their administration and support. "In all cases," he writes, "the attentions bestowed by our surgeons and pharmacists remedy the lack of comfort of these provisory hospitals. I must make a passing remark about the pharmacists, as it seems only just to do so. A large number of them, certificated pharmacists of the first class, after long studies, as one knows, established for the most part in large towns, wise and proved practitioners, are only in the army with the grade of simple soldiers of second class. They do their duty with patriotism and abnegation, but think that they should be able at least to be assimilated to the students in medicine, who at the end of their third year—that is to say, with twelve inscriptions—complete their time with the rank of sub-lieutenant. This same measure ought to be applied equally to the dentists. Why this ostracism against the pharmacists and dentists? Are they not as worthy as the medical students to wear the lace of an officer? And are they not in danger like the surgeons?" Reference is then made to an instance in which a hospital was shelled by aviators twice within three weeks, with disastrous effect to property, but happily with none to life. In this case the pharmacists incurred the same risk as the doctors.

AUSTRALASIAN NEWS.

"The Chemist and Druggist" is subscribed for and supplied weekly to all the members of nine Chemists' Societies in Australia and New Zealand.

The Commonwealth.

IMPORT DUTIES.—The preference rates in favour of Great Britain have been advanced 5 to 10 per cent, in the case of almost all imported dry goods by raising the duties payable by foreign countries to the same extent. Preference is also granted on certain goods which up till now have received no preference.

New South Wales.

Pharmacy Board.—At the meeting on October 13 a letter was received from the Pharmaceutical Society of Western Australia relative to pharmaceutical students who have volunteered for military service in the Expeditionary Forces, asking what the Board proposed doing in the way of allowances or special facilities to any such students who intend to present themselves for their Final examination. Mr. Short thought the Board should arrange for early and frequent examinations if that is desirable, but he could see no grounds for making the examination less stringent. Mr. Williams said he did not consider service in the Army could be treated as part of the term of apprenticeship, but an apprentice should be allowed to complete his apprenticeship on his return from active service. It was resolved to hold a special examination for any student who has prepared himself and is going on active service with the Expeditionary Forces. Mr. Wadsworth introduced a draft of a Poisons Act Amendment Bill, the main principles of which provided for (1) the termination of all poison-licences on a specified date: (2) the annual renewal on the payment of a prescribed fee of 10s. 6d.; (3) the keeping of a register of all dealers in poisons, with their residence and occupation. PHARMACY BOARD.—At the meeting on October 13 a letter

A RADIUS AGREEMENT was enforced by Mr. Justice Eve in the Chancery Division on Thursday, December 17, Dr. E. C. Dare Bascombe, Colchester, getting an injunction to restrain A. C. King (formerly employed by him) from practising as a dentist within ten miles of Colchester.

LEGAL REPORTS.

TRADE LAW.

Sweet Spirit of Nitre .- At Bow Street Police Court,

TRADE LAW.

Sweet Spirit of Nitre.—At Bow Street Police Court, London, before Mr. Graham Campbell, on December 11, Boutalls, Ltd., chemists, Southampton Row, were summoned, under Section 6 of the Sale of Food and Drugs Act, 1875, for selling sweet spirit of nitre which was certified by the public analyst to be deficient in cthyl nitrite to the extent of 65.7 per cent. The offence was admitted, and it was explained that the deficiency was due to evaporation through frequent opening of the stock bottle. A fine of 71., including costs, was imposed.

Commutation of Compensation:—On January 17 we reported the case of Watson v. Maw, under the Workmen's Compensation Act, in which the plaintiff, a toothbrush maker, was awarded 18s. 7d. per week in respect of injury sustained in the course of his employment, the amount being based on the wages earned in working days exclusive of holidays. At the Shoreditch County Court on December 15, Messrs. S. Maw, Son & Sons asked to have the award reviewed, and after consultation an offer of 85l. and costs on B scale was accepted by the plaintiff, and Judge Smyly, K.C., made an order accordingly.

Incorrect Dispensing.—At Folkestone, on December 11, Mr. Franklin Pilcher, chemist and druggist, Harbour Street, Folkestone, was fined 10s., and 22s. costs, under Section 7 of the Sale of Food and Drugs Act, 1875, for selling a compounded drug which was not in accordance with the prescription was for a mixture containing the following ingredients in the quantities stated, and on analysis of the mixture dispensed the quantities in brackets were found:

dients in the quantities stated, and on analysis of the mix-ture dispensed the quantities in brackets were found: Magnes, sulphat, 5iij. [2.6 drachms], ferri sulphat, gr. xv. [22 grains], quinin, sulphat, gr. xij. [9.7 grains], acid, sulphuric, dil. 5iij. [1.7 drachms].

Magnes, sulphat, Siji. [2.6 drachms], ferri sulphat, gr. xv. [22 grains], quinin, sulphat, gr. xij. [9.7 grains], acid. sulphuric, dil. ziji. [1.7 drachms].

Lime-water.—At the Norwich Police Court on December 16, William Henry Hurn, chemist and druggist, 143 Unthank Road, Norwich, was summoned, under Section 6 of the Sale of Food and Drugs Act, 1875, for selling lime-water on November 11 which the public analyst had certified to be 73 per cent, deficient in lime. Mr. W. E. Keefe, for the defence (undertaken by the Chemists' Defence Association), said he did not accept the British Pharmacoperia as binding in that court, but on behalf of the defendant he pleaded guilty, regretting that in this instance the lime-water was so deficient that it would not serve its purpose. He added that lime does not readily dissolve, and in this case the water was taken from a bottle in which the lime had not dissolved. The Bench dismissed the case on the payment of 4s. 6d. costs.

Partnership Not Proved.—At the Lambeth County, Court, before Judge Parry, on December 11, Joseph Barlow, trading as the Bromide Enlarging Co., 38 South Lambeth Road, S.W., sued Frederick Richard Bishop, alleged to be trading as Ashton & Co., 23 Abbey Parade, High Street, Merton, for 2l. 4s. 1d. for goods supplied. Plaintiff said ho was introduced to defendant by Ashton as his partner; he made inquiries respecting defendant, and as a result supplied Ashton & Co. with the goods. Defendant said he was never in partnership with Ashton, but only lent him money. In February he wrote to plaintiff warning him not to supply Ashton. His Honour said there was not sufficient evidence to prove that defendant was a partner in the business, and struck out the case on the ground that the summons had not been served on Ashton & Co.

An Agency Question.—In the City of London Court on December 11, Judge Atherley-Jones, K.C., reserved judgment in the case of Dornberger & Co. v. R. D. Galbraith & Co., in respect to a claim for shaving-mugs of German manufacture. The defenda

Legality of Stop Lists. - In the King's Bench Division, Legality of Stop Lists.—In the King's Bench Division, before Mr. Justice Shearman and a common jury, an action was brought on December 11 by Mr. Harry Green, wine and spirit dealer, 90 Alexandra Park, Muswell Hill, N., against the Wine and Spirit Brand Association and Mr. King Stewart, its Secretary, for damages for alleged libel contained in a publication called the "Stop Supplies" list, issued by the defendants in December 1913. On behalf of the plaintiff, it was stated that the Association is a combination of wholesale wine and spirit merchants, formed for the purpose of preventing retailers from selling wine issued by the defendants in December 1915. On behalf of the plaintiff, it was stated that the Association is a combination of wholesale wine and spirit merchants, formed for the purpose of preventing retailers from selling wine and spirits at prices less than those fixed by the Association. On January 30, 1913, the defendants published a document, which they circulated widely throughout the trade, explaining the objects of the Association and pointing out that the main and effective principle of its organisation was through the operation of its "Stop Supplies" list, and inviting traders in their own interests to communicate to the Secretary any instances of cutting of retail prices. In the following December the defendants, it was alleged, falsely and maliciously published in relation to the plaintiff's husiness the words, addressed to members and wholesale distributors, "You are hereby requested not to supply any of the brands upon this Association's protected list until you are notified that this shop has been withdrawn." This notice was, it was alleged, understood to mean that the plaintiff was a cutter, and in consequence he was unable to obtain supplies from wholesale dealers, and thereby suffered damage. Mr. Gordon Hewart, K.C., for the plaintiff, said the plaintiff had been branded as a cutter of prices, although he was not a cutter, simply as a means of coercing him into signing an agreement not to sell the goods named in the protected list of the Association below the minimum price fixed by the wholesale dealers. The plaintiff's reason for refusing was that he would not lend his signature to the agreement until the Association made it effective against his competitors. Mr. H. F. Dickens, K.C., for the defence, said that if the plaintiff had been reasonable there would have been no necessity whatever for putting his name on the "Stop Supplies" list. After the case had proceeded for several hours a settlement was agreed to, and the record was withdrawn on defendants undertaking to pay plaintiff's costs.

BANKRUPTCY REPORT.

Re William John Lowes, Sedgefield, Drug-store Proprietor.—This debtor was examined at Stockton Bankruptcy Court, on December 9. on accounts showing liabilities 311%. 6s. 5d. and assets 86%. 6s. 11d. He stated that he commenced business at Sedgefield in February 1911 with 35%. which he had borrowed and still owes. The turnover of the business was insufficient to make the venture pay, and he attributed his failure to want of capital and slack trade.

DEED OF ARRANGEMENT.

Bowden, Francis Henry, 38 High Street, Cheadle, Pharmaceutical Chemist.—Trustee: H. P. Mounsey, 3 Lord Street, Liverpool, C.A. Dated, December 7: filed, December 14. Liabilities unsecured, 2,898*l*.; estimated net assets,

GAZETTE.

Bankruptcy Acts.

RECEIVING ORDER.

Scattergood, A. K., 1 Blenheim Square and 109 West Street, Leeds, physician and surgeon.

Adjudications.

East, G. E. (described in the receiving order as Edward East), 138 Broadhurst Gardens, Hampstead, lately of 24 Randolph Crescent, Maida Vale, London, surgeon.

Scattergood, A. K., 1 Blenheim Square and 109 West Street, Leeds, physician and surgeon.

In addition to the Royal Institution lectures referred to last week, it has been arranged that Professor C. S. Sherrington, M.D., LL.D., D.Sc., F.R.S., the new Fullerian Professor of Physiology, will deliver a course of six lectures on "Muscle in the Service of Nerve." The first lecture will be on January 19.

Private Meeting.

At a meeting of the creditors of Herbert Owen Griffiths, chemist and druggist, 1 Fitzroy Court, Tottenham Court Road, W., at the offices of the Association of Manufacturing Chemists, 32 Kimberley House, Holborn Viaduct, E.C., on December 15, Mr. P. S. Booth submitted a statement showing liabilities 3461. 12s. 1d. and net assets 1601. 10s. It was resolved to accept a cash composition of 7s. 6d. in the pound. The following are creditors: Armour & Co., Ltd. (44.); Tho British Drug Houses, Ltd. (331.); T. Christy & Co. (7l.): Hockin, Wilson & Co. (7l.); Odol Chemical-works (5l.); F. Stearns & Co. (22l.); J. Timson & Co., Ltd. (8l.); Warrick Bros, Ltd. (7l.).

LIMITED COMPANIES.

New Companies Registered. P.C. means Private Company and R.O. Registered Office.

AGUA DE CASAES, LTD. (P.C.).-Capital 1,000l. Objects: To carry on the business of manufacturers of and dealers in medicinal, aerated, mineral, and table waters, etc., and

willing the mineral and the waters, etc., and to adopt an agreement with Captain W. M. Cairncross.

Williford, Ltd. (P.C.).—Capital 1,500l. Objects: To take over the mineral-water business of A. Williment, Ramsgate, and at Broadstairs. The subscribers and first directors are A. Williment and C. W. Langford. R.O., Crow Hill,

and at Droadstairs. The subscribers and first directors are A. Williment and C. W. Langford, R.O., Crow Hill, Broadstairs, Kent.

*ABERDEEN CHEMICAL Co., Ltd. (P.C.).—Capital 1001., in 11. shares. Objects: To carry on the business of chemists, druggists, oil and colour men, etc. The first directors are F. J. Thomas, N. Eslick, and J. P. Crawshaw. R.O., 57 Moorfields, Liverpool.

**X HARROGATE CHEMISTS, Ltd. (P.C.).—Capital 1,0001., in 11. shares. Objects: To carry on the business of chemists, druggists, drysalters, etc. Tho first directors are T. E. Handford, Ph.C., O. R. Windemer, Ph.C., and A. W. Wood. R.O., 9 Leeds Road, Harrogate.

**Percy Brown, Ltd. (P.C.).—Capital 1,0001. Objects: To take over and carry on the business of the undertakings-carried on as "Percy Brown, late W. Sharman," 186 Marc Street, Hackney, N.E., chemists, druggists, oil and colour men, etc. The subscribers and first directors are P. Brown and W. Sharman.

**English Drug and Chemical Works, Ltd. (P.C.).—Capital 1,0,0001. Objects: To earry on the business of departing and colour men, etc. The subscribers and first directors are P. Brown and W. Sharman.

P. Brown and W. Sharman.

ENGLISH DRUG AND CHEMICAL WORKS, LTD. (P.C.).—
Capital 10,000l. Objects: To earry on the business of chemical and drug manufacturers, chemists, distillers, drysalters, importers and exporters of chemicals, drugs, and raw material, manufacturers of pharmaccutical, medicinal and photographic substances and compounds, etc., and to adopt an agreement with S. P. Eastick. The first directors are S. H. H. Henn, S. P. Eastick, and H. Duckworth. R.O., 8-9 Broad Street Avenue, E.C.

Company News.

Company News.

International Sponge Importers, Ltd.—The directors have declared a dividend at the rate of 6 per cent. per annum on the 6 per cent. cumulative preference shares for the six months December 31, 1914.

Apollinaris & Johannis, Ltd.—The directors have decided, in view of the conditions now existing, not to pay any interim dividend on either the cumulative preference or ordinary shares.

Taylor's Drug Co., Ltd.—At the twenty-seventh annual meeting, held at the Hôtel Métropole, Leeds, on November 30, it was reported that the profits on the year's trading up to June 30 had been 14,222L. compared with 10,959L in the previous year. A dividend of 7 per cent. on the ordinary shares was agreed to, 8,408L was placed to reserve, and 3,312L carried forward. Mr. Waide, the retiring director, was re-elected. is re-elected.

was re-elected.

Parry Jones, Ltd.—A meeting of the creditors of this company (chemists, 2 Hope Street, Wrexham) was held at the office of Mr. Moffatt, accountant, Wrexham, on December 11. when a statement of affairs was presented showing liabilities 6751. 14s. 5d. There are debenture bonds for 6001., and preferential ereditors for 851. The assets were estimated to produce 1.0811. 14s. 8d., and after allowing for preferential claims and debenture bonds there were net assets of 3961. 10s. The company was registered in 1913 (C. & D. March 29. 1913, p. 40) to take over the business of W. T. Harlow. The trading account up to the end of March last year showed a gross profit of 5601. on sales of 1.5591., and the profit-and-loss account for the same period showed a net loss on trading of 611. odd. The managing director (Mr. Harlow) had drawn 51. weekly out of the business under his agreement.

and the turnover has never exceeded 1,600l, a year. There is a lease on the premises, which has twelve years to run, at an annual rental of 120l. After some discussion, it was resolved that the voluntary liquidation should be continued. The following are creditors: Evans Sons Lescher & Webb, Ltd. (38l.): Ayrton, Saunders & Co., Ltd. (19l.): Chemist's Sundries, Ltd. (7l.); Quilliam & Co., Ltd. (3l.) Wyleys, Ltd (10l.); Butcher & Son, Ltd. (8l.): Wright, Layman & Umney, Ltd. (3ll.): Cresswell Bros. (15l.): J. Durant, Ltd. (5l.); Bronnley & Co., Ltd. (4l.); T. F. Bristow & Co., Ltd. (7l.); Blyton, Astley & Co. (5l.): Oldfield, Pattinson & Co. (25l.): Stephen Smith & Co., Ltd. (4ll.); Sangers (23l.); Jas. Woolley, Sons & Co., Ltd. (14l.); Grossmiths, Ltd. (6l.); Houghtons, Ltd. (5l.); S. Maw, Son & Sons (7l.); Leibig's Bonovin, Ltd. (6l.).

Houghtons, Ltd. (5l.); S. Maw, Son & Sons (7l.); Leibig's Bonovin, Ltd. (6l.).

Lewis & Burrows, Ltd.—The report for the year ended September 30 states that, in spite of the war, the volume of trade has been well maintained. During the year changes have been made at three branches—the lease of 78 Westbourne Grove expired in December last, and the business was transferred to No. 98; the new premises at 209 High Street, Kensington, were occupied in the spring; the Kentish Town Road lease expired, and was not renewed. The directors regret to report that, in spite of the best efforts of the company, the "Rexall" agency has proved to be unsatisfactory, and has consequently been terminated. It is proposed to pay a dividend of 6 per cent. (less income-tax) on the preference shares. Mr. J. R. Brough retires by rotation, but offers himself for re-election. The profit-and-loss account shows a profit on trading of 3,658l. 18s. 8d., with transfer-fees (4l. 12s. 6d.) and dividends on investments (India stock) 77l. 15s. 1d., making a total of 3,741l. 6s. 3d. After deducting salaries of general manager and secretary (620l.), directors' and auditors' fees (670l.) and depreciation account (1,055l. 12s.), a net profit is carried to balance-sheet of 1,395l. 14s. 3d. In the balance-sheet the assets include leasehold premises and goodwill, 44,305l.; fixtures. fittings, and furniture, 21,747l.: movable plant and utensils, 2,471l.; stock-in-trade, 27,300l.; sundry telebtors, 2,496l.; cash, 2,294l.; and investments, 2,108l. The liability of 1,056l. in respect of an application for 7 per cent. preferred capital stock of the United Drug Co. has been cancelled. been cancelled.

liability of 1.056/. in respect of an application for 7 per cent. preferred capital stock of the United Drug Co. has been cancelled.

IDRIS & Co., Ltd.—The annual meeting of shareholders was held at the Midland Hotel, St. Pancras, on December 15, Mr. T. Howell W. Idvis, J.P. (Chairman of directors), presiding. In moving the adoption of the report (see C. & D., December 12, p. 42), Mr. Idris compared the various items in the balance-sheet with the corresponding figures for 1913. Leasehold and freehold property, he said, showed an increase of 2,523/. due to the company having invested portions of the reserve fund and sinking fund in two further properties acquired on favourable terms. The capital employed in branch businesses showed a decrease of 4,160/., one of the branches having been closed. The Board are carefully considering the question of closing some of the other branches, as the extensive premises in London enable the company to manufacture at the lowest possible cost, giving results that cannot be surpassed. The directors intend to continue the policy of concentration as far as possible. Stock-in-trade showed a reduction of 1,570/.. largely accounted for by the sale of horses, harness, and vans to the War Office, which were not fully replaced at the date of stocktaking. Sundry debtors show an increase of 887/. due to some shipping accounts for mineral-waters supplied to the troopships during the last month of the financial year: ordinary customers' accounts show a satisfactory reduction compared with 1913, although more business was done; goodwill remains the same as in previous years; investments on account of sinking fund show an increase of 286/., the directors having been able to make some further investments on this account; bills receivable increased 499/., due to development of export trade. The balance at bank had increased by 8,214/., which is the most satisfactory feature of the balance-sheet. The Chairman, in reviewing the items on the other side of the balance-sheet, stated that the profit f

BIRTHS.

Authenticated notices are inserted war or charge.

Cecil-Owen.—At 12 Grange Road, Chester, on December 11, the wife of R. Cecil-Owen, B.Sc., of a son.
WOOD.—At The Pharmacy, 19 Grimston Street, Beckett Street, Leeds, on December 10, the wife of J. W. Wood, of a son.

MARRIAGES.

Authenticated notices are inserted without charge.

Weatherill—Cook.—At St. Andrew's Presbyterian Church, Torquay, by the Rev. W. II. Weatherill (father of the bridegroom) and the Rev. W. W. Goldsworthy, on December 12, Reginald J. H. Weatherill, chemist and druggist, 73 Springbank Road, Lewisham, London, S.E., to Violet Lilian, younger daughter of Mr. and Mrs. J. H. Cook, Penhalt, Paignton.

Golden Wedding.

IRVIN—SIMPSON.—At Bethesda Methodist New Connexion Chapel, Gateshead, by the Rev. James Le Huray, on December 6, 1864, William Green Irvin, chemist and druggist, North Shields, to Annie Sumerside Simpson, Felling-on-Tyne [Present address: 24 Widdrington Terrace, North Shields.]

DEATHS.

Authenticated notices are inserted without charge.

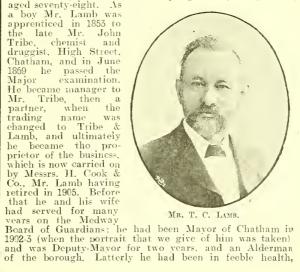
Authenticated notices are inserted without charge.

Graf,—At his residence, 19 Queensdown Road, Clapton, London, N.E., on December 13, Mr. Fredk. G. Graf, drug importer and exporter, 65 Fenchurch Street, E.C., aged fifty-five. The death of Mr. Graf was not unexpected, as he had been laid aside with pernicious anæmia for practically two years, and it was only at rare intervals that he was able to visit the City, although he kept in daily touch with affairs. Mr. Graf entered the Mincing Lane drug-trade at the age of thirteen, when he was apprenticed by his father to the late Mr. Fredk. Thomae, who was at that period the London agent for the Brunswick Quinine-factory. Here he gained a splendid knowledge of the drugtrade, especially of the Peruvian and other cinchona-barks, which at that time were selling at from 2s. 6d. to 15s. per lb. From 1880 to 1886 Mr. Graf managed the export business of Mr. R. Myers, and in the latter year he commenced business on his own account as a drug importer and exporter at 65 Fenchurch Street, his business being chiefly with the Continent. It is a peculiar fact that, although many historic landmarks have been removed from that neighbourhood, Mr. Graf's business has flourished at the above address for almost thirty years. Mr. Graf had an excellent reputation in Mincing Lane, where the high principles on which he carried out his commercial dealings were much appreciated by his fellow-merchants.

VLAMB.—At Tintagel, Maidstone Road, Chatham, on December 14 Mr. Thomas Campling Lamb, J.P. B. C.

**LAMB.—At Tintagel, Maidstone Road, Chatham, on December 14, Mr. Thomas Campling Lamb, J.P., Ph.C., aged seventy-eight. As a boy Mr. Lamb was

a boy Mr. Lamb was apprenticed in 1853 to the late Mr. John Tribe, chemist and druggist, High Street, Chatham, and in June 1869 he passed the Major examination. He became manager to Mr. Tribe, then a partner, when the pariner, when the trading name was changed to Tribe & Lamb, and ultimately he became the pro-



and his death was not unexpected. At the sitting of the Rochester County Justices on Tuesday, the Chairman paid a high tribute to Mr. Lamb's character and worth, and referred to the loss the town had sustained by his death.

√ HARRADINE.—At Highley, recently, Mr. Henry G. Harradine, chemist and druggist, aged sixty-five.

HITTORF.—It was on November 28 that Dr. Johann Wilhelm Hittorf died, as reported in the C. & D., December 12, p. 42. He was a Professor in the Westphalian Wilhelms University, Münster. He was elected an honorary member of the Chemical Society of London in 1908.

^ Laister.—At 293 Liverpool Road, Birkdale, Southport, on December 14, Mr. J. W. Laister, chemist and druggist, brother-in-law of Mr. W. G. Brooks, chemist and druggist (Boots, Cash Chemists, Ltd., Bold Street, Liverpool).
Mr. Laister was latterly with George Ball, Ltd., Lord Street Southport Street, Southport.

McKnight, wife of Mr. R. W. McKnight, Ph.C., Carlisle Circus. The funeral took place on December 10.

MINE.—At Edinburgh, on December 14, Mr. William Farquhar Milne, chemist and druggist, Juniper Green, Midlothian, aged thirty-six.

WILLIAMS.—At Newport (Pem.), recently, Mr. John Williams, chemist and druggist, aged eighty-three. Mr. Williams was senior Alderman of the borough, and had been on three oceasions appointed Mayor by the Lord Marcher of the Barony of Kemes (Sir Marteine Lloyd, Bart.). For many years he held the office of Registrar of Births, Marriages, and Deaths for the district. Mr. Williams was one of the most highly esteemed men in North Pembrokeshire.

PERSONALITIES.

Authenticated information for this section will be received by the Editor, and published, if not in the nature of advertisement.

MR. W. Woolley, managing director of Cupal, Ltd., has been appointed Circuit Steward to the Wesleyan Body for Blackburn and District.

Bro. F. T. Roper, chemist and druggist, Kington, Herefordshire, P.G. Steward, was on December 14 installed W.M. of "The Arrow Lodge" No. 2,240.

ALDERMAN E. P. WYNNE, chemist and druggist, Aberystwyth, has been elected Chairman of the Markets, etc., Committee of the local Municipal Council.

George Francis Kneen, late of 141 Anerley Road, S.E., a successful candidate in the Pharmaceutical Benevolent Fund election, desires to thank all who supported him on

Fund election, desires to thank all who supported him on that occasion.

MR. FRANCIS H. CARR, F.I.C., F.C.S., will on January 1,

MR. Francis H. Carr, F.I.C., F.C.S., will on January 1, 1915, take over as manager the supervision of the laboratories of Boots' Pure Drug Co., Ltd., Nottingham, with a seat on the board of directors.

MR. W. H. Grimshaw, chemist and druggist, Blackburn. has been elected a member of the Executive Committee of the Darwen Tradesmen's Association for another year. Mr. Grimshaw is one of the oldest members of the Association.

WOR. Bro. G. J. R. Parkes, chemist and druggist (The British Drug Houses). was invested as Prov. Grand Pursuivant by the Prov. Grand Master, the Duke of Portland, at the last meeting of the Prov. Grand Lodge of Nottinghamshire.

hamshire.

Bro. Dr. F. I. Allan, medical officer of health for Westminster, was installed W.M. of the Thistle Mark Lodge at the Criterion Restaurant on December 4. Bro. W. P. Novelli-James (W. J. Bush & Co., Ltd.) was at the same time installed S.W.

Mr. H. W. Harrie (C. R. Harker, Stagg & Morgan, Ltd.) has been re-elected for the seventh time Hon. Seeretary of the Bournemouth Branch of the U.K. Commercial Travellers' Association, and Charity Steward on behalf of the Benevolent Institution of the Commercial Travellers' Schools.

the Benevolent Institution of the Commercial Travellers' Schools.

Mr. I. T. Lloyd, chemist and druggist, 267 King's Road, Chelsea, S.W., writing on behalf of Mrs. Margaret Lewis, desires to thank all those friends and sympathisers who aided her with their votes at the last Benevolent Fund election, and regrets it is impossible to write to each separately.

Mr. James G. McMillan has been appointed managing director of A. Wander, Lid., in succession to the late G. T. Gale. Mr. McMillan has been with the company for nearly five years, having immediately previously been manager of the Pharmacy Waldorf, and before that he was with Messys. Cooper & Co., Kensington. He served his apprenticeship with Mr. William Park, Broughty Ferry, and qualified in July 1904.

TRADE NOTES.

LIQUID PARAFFIN.—Messrs. Hertz & Co., 9 Mincing Lane. London, E.C., announce that they have a consignment of odourless American mineral oil due to arrive this month.

Malt and Oil.—Revised prices for extract of malt with cod-liver oil are given in the advertisement of Wyleys, Ltd., Coventry and London. A new kind of jar is also supplied.

CHEMICALS.—May & Baker, Ltd., Battersea, give a list of chemicals, which they can supply promptly and at reason-The list refers to those chemicals which are in able prices. short supply.

Toy RAILWAYS worked by electricity are suitable for sale by chemists, especially at the present season. Archibald J. Wright, Ltd., 41 Beech Street, Barbican, London, E.C., refers to these in his advertisement in this issue.

refers to these in his advertisement in this issue.

The Calendar published this year by Howards & Sons, Ltd., Ilford and Stratford, London, E., has in the centre a bird's-eye view of the company's Ilford establishment. Beneath the picture is the calendar, with monthly tear-offs.

Sanaphos.—The British Milk Products Co., Ltd., 69 Mark Lane, London, E.C., publish an important statement regarding the constitution of the company, as it is especially desired to emphasise the British character of the enterprise.

Two of Hewlett's Mixtures (Mist. Pepsinæ Co. c. Bismutho and Mist. Pepsinæ Co. e. Bismutho sine Opio) may now be exported without permits. The manufacturers, Messrs. C. J. Hewlett & Son, Ltd., have so been informed by the Board of Customs and Excise.

"Maw's Page."—Among the articles dealt with in the advertisement in this issue of Mcssrs. S. Maw, Son & Sons, 7 to 12 Aldersgate Street, London, E.C., are British-madevacuum-flasks, metric weights and measures, and other topical goods. topical goods.

BRITISH-MADE ALKALOIDS.—Messrs, Burroughs Wellcome & Co., Snow Hill Buildings, London, E.C., give a list of the alkaloids which they make at their Dartford laboratories. Many of these are manufactured from plants grown at the "Wellcome" materia-medica farm, which is near the chemical-works.

THE PATRICTIC CLOCK, which Royal Service, 229 West Green Road, London, N., introduced as a window attraction, is still on offer, but the list for London will close on December 31. Royal Service therefore ask chemists who would like a loan of the clock for thirteen weeks to write to them. to them at once.

AMSTERDAM AS A PORT.—The municipality of Amsterdam has issued, under the title of "The Port of Amsterdam," a beautifully produced book describing the doeks, harbour works, and trading establishments of this Dutch port. Amsterdam is the most important of the ports of Holland, and next to Dutch vessels is most used by British shipping. The book to which we refer is in English, and contains a large number of half-tone illustrations and maps.

large number of half-tone illustrations and maps.

British-Made Laboratory Glassware.—We have received from Messrs. Bainbridge & Finlayson, 141 High Street, Stockton-on-Tees, samples of British-made test-tubes and glass tubing, which they are now in a position to supply. The samples show that the workmen employed have successfully overcome all difficulties; the test-tubes are very well finished, and the bore is even. The firm are also able to supply a brand of filter-paper for laboratory use equal to any produced by alien enemies and at the same price.

CHRISTMAS AND THE NEW YEAR are heralded with words of good cheer and wishes for prosperity by numerous advertisers in this issue, viz.:

Boulton-Macro. Ltd., Stratford, E. Henry W. Bush & Co., Ltd., Commercial Street, E. Edward Cook & Co., Ltd., Bow. E. Elt's College, North Finchley, N. Goodall, Backhouse & Co., Leeds. Howards & Sons, Ltd., Ilford and Stratford, Francis Newbery & Sons, Ltd., 27 Charterhouse Square, E.C.

Northern College of Pharmacy, Burlington Street, Man-

chester.

T. & H. Smith, Ltd., Edinburgh, Glasgow, and London.
Thomas Swales, Butt's Court. Leeds.
Thomas Tyrer & Co., Ltd., Stratford, E.
Stafford Allen & Sons, Ltd., London and Long Melford.
"Ueal" (United Chemists' Association, Ltd.), Chel-

There are more to follow, and we reserve further remark on the whole subject.

Francis Newberry & Sons, Ltd., 27 and 28 Charterhouse fourier. London, E.C., have added this toilet companion. Wenberry," to their series of saleable articles. It will

form an acceptable Christmas present to men with the Colours, and to many others. The case contains a hair-Colours, and to many others. The case contains a hair-brush and comb, a tooth-brush in glass cylinder with nickel



cover, a nail-brush with polished back, a bottle of brilliantine, a tin of tooth-powder, and a cake of soap in a white celluloid case. The case (covered with imitation watered silk in blue, with edges in red) measures 11 in. by 6 in. by 2 in., and costs, with a strap, 38s, per dozen, or without a strap 36s., subject to the usual discount.

TRADE-MARKS.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1914, p. 237.

Objections to the registration of any of the undermentioned ections to the registration of any of the industrial content of the applications must be stated on Form T.M. No. 7 (obtainable at Money Order Offices for \pounds_{x}) and lodged with Mr. W. Temple Franks, Comptroller-General, Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned.

(From the "Trade-marks Journal," December 9, 1914.)

(From the "Trade-marks Journal," December 9, 1914.)

"Reterac"; for anti-corrosives (1). By G. Carter, Suspension Bridge Chemical and Oil Works, Leeds. 364,454.

"Civic Guard"; for disinfectant soaps (2), and for medicated soaps (3). By Hartley & Partners, Ltd., 20 Finsbury Circus, E.C. 363,455/4.

"Eight Bells"; for disinfectant soap (2). By Orsini Stuart, 41 Castle Street, Liverpool. 363,356.

"Brysoform" and "Brysolene"; for antiseptics and disinfectants (2). By Robinson Bros., Ltd., Ryder's Green, West Bromwich. 364,141/2.

"Beffanta": for a vermin-killer (2). By Mabel B. Orridge.

"BEFTANTA"; for a vermin-killer (2). By Mabel B. Orridge, 131 Notting Hill Gate, W. 364,252.

"ASEPTOFIX"; for a medicinal liquid wound-dressing (3).
By Eleonore C. Wood, 1 Upper Porchester Street, W. 364,062 364,083.

"Hodatol."; for medicinal chemicals (3). By The British Drug Houses, Ltd., Graham Street, N. 364,270.
"Colleen"; for all goods (3). By McClintons, Ltd., Donaghmore Dungannon Tyrone, 364,280.

"Britopirin"; for medicinal chemicals (3). By C. Philip, Herne Bay. 364,308.
"FOEMABALM"; for internal medicines (3). By John G.

ORMABALM "; for internal medicines (3). By John Robbins, 130 Romford Road, Stratford, E. 364,405.

"Hydrentum" and "Cuprentum"; for medicinal chemicals (3). By Allen & Hanburys, Ltd., 37 Lombard Street, E.C. 364,413/4.

"Formels," for medicinal chemicals (3); "Regetone," for food-substances (42). By Regesan, Ltd., 7A Laurence Pountney Hill, E.C. 364,417/065.

"Neokharsivan"; for medicinal chemicals (3). By Burroughs Wellcome & Co., Holborn Viaduct, E.C. 364,607.

"THERMO-SAN"; for glass (15). By Boot's Pure Drug Co., Ltd., 37 Station Street, Nottingham. 363,934.

"Pals"; for goods (42). By Willer & Riley (1910), Ltd., 54 Corporation Street, Manchester. 364,136.

"RAONIC"; for mineral and acrated waters (44). By Elias, 123 Waller Road, New Cross, S.E. 364,276.

"RISTOL"; for all goods (47). By H. Prichard & Co., Ltd., 7-9 Redcliff Street, Bristol. 363,916.

"Beetle," with picture of same; for goods (47). By Wilkie & Soames, Ltd., Thames Soap and Candle Works, East Greenwich, S.E. 364,209.

"Harvland"; for bleaching-preparations (47). By Ingle, Morley Grange, Churwell, Leeds. 364,396.

Label device including words "Originalitys Swiss Alpine Hair-tonic" ("Originalitys Swiss Alpine" disclaimed); for a hair-tonic (48). By J. Ursprung, 75 Trevelyan Road, Tooting, S.W. 364,311.

"Gramophonine"; for a preservative for talking-machine records (50). By C. L. Tweedale, Western Vicarage, Askwith, near Otley. 357,661.
"Willowette"; for empty pasteboard and eardboard boxes (50). By Ayrton, Saunders & Co., Ltd., Liverpool. 364,100.

Marks in Switzerland.

A British Consular report, dealing with the trade of Switzerland during 1913, states that the following trademarks, bearing inscriptions in English, have been registered in Switzerland since June 1913. The goods are not of British or American origin, but are made on the Continent, and some of them are sold in Geneva:

"Best Yes Toilet-soap" and "Yes." Registered by Yes Reszvenytarsasag at Budapest, Hungary.

"Imperial Oak" and "Royal Oak." Soap and perfumery. Registered by F. Wolff & Sohn, Bâle, Switzerland.

"Smart Set." Perfumery Registered by Gallet Pellorin

Smart Set." Perfumery. Registered by Gallet, Pellerin & Cie., Paris.

"Kolynos Disease Preventer." Tooth powder, paste, etc. Registered by the Europäische Kolynos Co., Berlin, Germany.

Lysoap." Soap. Registered by Schülke & Mayer Nachf. Dr Raupenstrauch, Vienna, Austria-Hungary.

The Neosalvarsan Patents.

On December 15 the Comptroller of Patents (Mr. Temple-Franks) and Sir C. Dalton heard an application by Mr. H. S. Wellcome for the suspension of the patent of addition 8219, 1912, and the trade-mark 340,386, relating to neosalvarsan, owned by Meister, Lucius & Brüning, Hoechston-Main, Germany. Mr. E. A. Warden stated that Mr. Wellcome has been granted a licence to manufacture salvarsan and neosalvarsan, and the present application was for a patent of addition for the further purification of the latter substance. latter substance.

Mr. Imray, for Meister, Lucius & Brüning, said that if the application is granted the restrictions under which a licence to manufacture salvarsan had been granted to the applicant should apply in this case also. These restrictions

applicant should apply in this case also. These restrictions are that the containers in which the drug is sold must bear a notice to the effect that it is made by Messrs. Burroughs Wellcome & Co. in the United Kingdom.

Mr. Warden said that, as neosalvarsan is covered by patents for which licences have already been granted to Mr. Wellcome, the same restrictions will necessarily apply to the present application. The applicant would only use the names salvarsan and neosalvarsan to popularise the product, which later on would be sold under a name of his own his own.

The Comptroller said there was no doubt that they would recommend the granting of a licence. The only question was in regard to royalty. It appeared from the evidence in the various cases that the profit on those sub-

evidence in the various cases that the profit on those substances is greater than they at first supposed.

Mr. Warden said the royalty under the licences that have been granted is 5 per cent., and the applicant would be prepared to pay a similar royalty.

Mr. Potts, on behalf of the Société Anonyme des Etablissements Poulenc Frères, who have also been granted permission to manufacture salvarsan and neosalvarsan, statted that, later on, his clients propose to manufacture these-products in this country. They are to pay a royalty of 2s, per gram (about 10 per cent.), and it would be unfair to them if Burroughs Wellcome & Co. paid only 5 per cent. on all these patents.

on all these patents.

The Comptroller said that the reason the higher figure had been fixed in the case of Poulene Frères was that they had been fixed in the case of Poulene frères was that they had been making these substances for some years, and had therefore no expenditure in regard to plant.

Mr. Warden said that not only must the expense of the

plant be considered, but also the fact that it is impossible to manufacture those substances without a large amount of

to manufacture those substances without a targe amount of experimental work.

Mr. Imray suggested that if a royalty of 10 per cent. were agreed upon, Burroughs Wellcome & Co. would still have an advantage over Poulene Frères.

The Comptroller said that it was in the interests of the community that the price should be kept as low as possible, therefore the royalty must not be placed at too high a feature.

Mr. Potts submitted that the Board of Trade had the power to alter the royalty to be paid at any time, and that the present application gave a favourable opportunity for

a reconsideration.

The Comptroller said they had all the facts before them, and would report to the Board of Trade in due course.

SCIENTIFIC PROGRESS.

Temperatures under this heading are on the Centigrade scale

Oil of Black Sage.—Burke and Scalione ("Jour. Ind. and Engin. Chem.," 1914, 6, p. 804) have obtained 0.9 per cent. of essential oil from the leaves and twigs of the American black sage (Ramona stachyoides). The oil was found to contain pinene, 6 per cent.; cineol, 30 per cent.; dipentene and terpinene, 25 per cent.; thujone, 8 per cent.; camphor, 25 per cent.; and resinous matter, 5 per cent.

Oil of Citrus Pinensis.—According to Fenaroli ("Ann. Chim. Appl.," 1914, 1, p. 408), the essential oil of the peel of the Chinese orange, which flourishes on the Ligurian coast, is principally used for the adulteration of ordinary orange and lemon oil, its odour being too unpleasant for it to be used alone. The oil consists chiefly of dextro-limonene, with a trace of dextro-pinene and a small percentage of esters and aldehydes. Its characters are as follows: Sp. gr., 0.847 to 0.848; optical rotation, +94.1° to +95.4°: refractive index at 17°, 1.4739 to 1.4741.

Essential Oil of Argentine Mint.—A. Doering ("Bol. Acad. Nac. Ciencias Cordoba," 1913, 19, p. 37, through "Proc. Chem. Soc.," No. 625) finds that the essential oil forms about 0.4 per cent. of the plant (Bystropogon mollis). It is clear, does not deposit crystals of menthol at 12°, and distils chiefly at 210°; sp. gr. 0.914 to 0.920. As much as zenoved by permanganate. Phenols are present in traces, and about 0.7 per cent. of free acid. Menthol appears to be absent. The terpenes have not been so far characterised. Cantharidin.—J. Gadamer ("Jour. Phar. Chim.," 1914, 10, p. 343) assigns the following symmetrical formula to cantharidin:

cantharidin;

CH₂.CH₂.CH.CH—CO

CH₂.CH₂.CH.CH—CO

Compounds of the composition C₁₀H₁₂O₃Br and C₁₀H₁₁O₃Br₂ are produced by heating with a solution of hydrobromic acid in acetic acid, together with hydrobromo-cantharic acid, C₁₀H₁₃O₃Br. The latter may be separated into optically active isomerides by means of brucine, and the active acid when reconverted into cantharidin gives an inactive product.

In the course of the report of the Department of Agriculture of Ceylon for 1913 the Director states that a larger plot has been devoted to the propagation of ipecacuanha in order to meet the increasing number of applications for plants. It requires a position under the permanent shade and shelter of trees, with a moist humous soil.

MR. G. LENTHAL CHEATLE, F.R.C.S., in the "British Medical Journal" (II., 1914, p. 1006), expresses his preference for a phenol and mercury perchloride solution as a first application to wounds. He states his belief that "iodine has proved a failure in treating large wounds." Mr. Cheatle's solution is a mixture of 1-in-20 carbolic acid and 1-in-500 mercury perchloride in absolute alcohol. It is coloured with rosaline. The value of this combination is as follows: 1-in-20 carbolic acid is a solvent of fat as well as a germicide. Mercury perchloride is a most powerful germicide. Rosaline has an important action in being a mordant. Wherever the dye is seen mercury perchloride is present even weeks after application. Alcohol dries sooner than water, it does not macerate the tissues so much, and it appears to encourage greater penetration of the antiseptic. No case has suffered from mercurial or carbolic-acid poisoning, although it has been applied frequently and freely to large granulating wounds. It is suggested that if the solution be carried by soldiers it would be better than a solution of iodine.



Postal Address

C. & D. INFORMATION DEPARTMENT, 42 Cannon Street, London. E.C. Telegraphic Address: "CHEMICUS, CANNON, LONDON" (two words). Telephone Number: 3617 CENTRAL (three lines).

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated. Please address us as above:

appreciated. Please address us as above:

192/52. "Sodine" (?American).

198/33. Depot in England for
"Produits Colombophiles de
Camille Fichefel, pharmacien
à Tamines."

193/60. "Cream of Almonds."

193/60. "Cream of Almonds."

193/60. "Valine" boot-cream
. 193/40. "Sanatex."

193/400. Krover's Pastilles.

193/401. Benbow's "Korina
Julep."

193/402. Krause's Egyptian
cream.
194/52. "Influenzine."

196/38. "Hercules" brand
trusses.

198/50. "Salmal" (ingredient
in a prescription).

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, The Chemist and Druggist, 42 Cannon Street, London, E.C.:

"Acid Quit" tablets, 194/50 Alkasil, 185/64 Auliin dyes (British makers), 198/1

Alkasil, 185/04
Anilin dyes (British makers), 198/1
Anti-suppurine, 195/70
Ashley Cooper's pills, 177/61
"Asepto" bandage, 191/30
Barbitonum, 189/5
Bell's cascarans, 195/65
British "Ever Ready" pocket lamps, 197/42
Bronchitis-kettles (makers), 185/9
Brownlow portable filters (for Portugal), 189/5
Cachets, 194/8
Camphylene, 197/27
Casein, 198/38
Caustic soda, 100-ton lots (for Switzerland), 190/50
Cereit, 186/49
Chelona wine, 186/46
Chinese star-anise oil, 195/4
Chlorids of lime, packers (London), 182/48
Cider antiferment, 195/330
Cork and felt socks, British makers (for Holand), 185/73
Coty's perfumes, 185/49
"Curyl" headache-cure, 189/58
Dornform, 187/29
Epicarin, 191/20
Encerin, 197/50
"Fairy" soap, 198/48
"Fortress" brand ammonium carbonate, 197/55
Freeman's pasteurisers, 187/33
Grease-proof packings

"Fortress" brand ammonium carbonate, 197/65
Freeman's pasteurisers, 187/35
Grease-proof packings (for crushed linseed), 186/48
Helicon, 193/28
Pasteur (Chamberland) filter, 178/65
Pearson's cherry cough-balsam, 195/35
Pearson's hair-brushes, 191/19
Peebles' dishorner, 175/550
Petrole Hahn, 196/57
Phenalgin, 186/3
"Phenyle," 190/7
Pitnitary extract (in ampoules), 186/58
Pleated - paper bottle - caps, 122/202

Pleated - paper bottle - eaps, 127/220

HE CHEMIST AND DRUGGIST, C.C.:

Pluri-glandular organotherapy preparations, 191/54
Pot-pourry jars, 182/2
Rhycol, 197/9
Ribes heroin (setterics), 195/64
Rothband's plasters, 186/45
Sal anmoniac, British makers (for France), 183/2
Salith-leaves, 186/47
Samol, 192/65
Seissors, makers, 187/71
Saling machine, 180/35
Shaving-stick cases, 197/1
Shop-round labeller, 182/46
Sir Astley Cooper's cough-pills, 189/1
Sodium bisulphate, 195/12
Sodium bisulphate, 195/12
Sodium bydrosulphite, 182/37C
Stearic acid (pure), 168/68
Steel wool, 189/63
"Sunflower" pomade, 168/15
Syrup of glycerophosphates and formates, 197/58
Tannurgyl, 196/59
Taylor's adhesive plasters, 174/64
T.E.C. batterics, 197/420
Tettanin" antitoxin, 149/48
Theinhardt's foods, 180/14
Therox, 152/24
Thymo-lescoline mouth-wash, 176/17
Tibble's Vi-cocoa, 196/730
Tin oxide, 182/1
Triangular bandages, 197/8
Trinitrotoluol, 148/111
Trivalin, 145/37
Tucker's asthma-cure, 195/63
Tunbridge measures, 181/8
Ung, renaglandin anæsthetic, 187/50
"United Service" hair-wash 181/40
Van Vlock's cure for piles, 185/45
Vasco, 195/620
Vulcanite tips (for nasal douches), 198/24
Wansborough's nipple-shields, 187/32, 198/49
Willow boxes (substitutes), 192/1

184/44 Wickering for Cologne bottles, 187/32, 198/49 Willow boxes (substitutes), 192/1 Wood-distillation plant (for Australia) 192/74

tralia), 192/74 Yeast extract, 178/4

OBSERVATIONS AND REFLECTIONS.

By Xrayser II.

The B.P. Troubles

which you contemplate, will, I fear, amount in the aggregate to a fairly substantial addition to our worries, for there is going to be a terribly confusing time before everything gets shaken into its proper place. No matter whether there is or is not a further proclamation, the great majority of medical men will ignore the new B.P. for the simple reason that they are too busy at present to find time to familiarise themselves with the changes. There may, however, be a minority who want to be thought up to date, and who will prescribe 1914 formulæ, therefore it will be for us a most serious question to know what we are to dispense when a prescription calls for one of the changed galenicals. Tinctures of aconite, opium, and strophanthus are especially likely to be dangerous, and pharmacists should warn doctors to be most careful to specify what they intend to be dispensed. If this is not done there will almost certainly be accidents, and we shall have this paradoxical position—that the more controuble, since in most cases the poisonous tinctures are increased in strength. I find from inquiries of my wholesalers that many of them are not yet ready to supply all the new galenicals, and this is hardly to be wondered at in the circumstances. Whether the General Medical Council will consider it worth while to take any further steps is another matter; I rather expect they will leave us to muddle through in our proverbial, happy-go-lucky British fashion.

The Effect of War

on the supply of drugs and chemicals was certain to be very pronounced, when we consider that many of our most commonly used drugs are obtained from Germany, Austria, Russia, Belgium, and Turkey. Add to this the fact that much of the trade in chemicals has drifted into German hands, and we can well understand how prices have soared to the figures hitherto undreamt of. Still another factor has apparently been in operation—namely, the syndicate or "corner" system, under which santonin has been placed almost beyond our reach. How far we can guard against such fluctuations in the future it is impossible to predict, but there ought surely to be some practical outcome of the present agitation, whether by definite steps being taken for the cultivation of medicinal plants in suitable areas of the empire, or by adopting some means for the encouragement of British chemical-manufacturers in their efforts to capture trade that should have been ours. There are great difficulties in the way, whatever steps we propose to take, and the greatest of all is that after the war is over Germans and Austrians must live. There can be no permanent boycott of those who are now our enemies, and it will be a sad thing for this country if we attempt to perpetuate bitter feelings after peace has been declared. If the world is to be at peace, one great healer will be commercial intercourse.

The Thin End of the Wedge

is often a good illustration, but usually a very bad argument, and the fact that some manufacturers seem to welcome the idea of Government help in the establishment of new chemical-industries as the thin end of the wedge of protection is in itself no reason why we should shrink from this new departure. Mr. Dott said at the meeting of the Society of Chemical Industry in Edinburgh (C, & D., December 12, p. 57) that such initial help would not have the same value as a permanent import-duty, but it might have value enough. If regarded as a temporary expedient to meet an urgent need it is no menace to the freedom of trade which is the secret of our commercial prosperity hitherto. A Government in trade on its own account might indeed be peculiarly liable to the temptation to protective legislation

against rivals, domestic as well as foreign, but nobody proposes that our Government should go into trade for its own profit. All that is intended is that it should take steps to ensure the supply of necessaries for the support of home industries, an end that manifestly could not be served by the imposition of duties that would hamper industry. It is well to bear this fact in mind in view both of the objections that some Free Traders are urging against the Government's scheme and the possible designs of so-called Tariff Reformers.

A "Indge-made" Law,"

says Judge Parry, in his new book, "The Law and the Poor," is usually a bad law; and yet (he adds) a very great deal of our law is so made. He cites several instances in support of his first statement, but none-though he might have found some-from the laws which govern the practice of pharmacy. emphatically of opinion that the powers of the Bench in this respect ought to be restricted; and here, I fancy, most pharmacists will agree with him. I have sometimes ventured to question the rightfulness of a judicial decision, and am therefore disposed to "chortle one of his stories. When acting once as junior to an eminent Q.C., afterwards a judge, Mr. Parry remarked that he was glad they had truth and right on their side. "If we have nothing more than that to depend on." was the reply, "God help us when we get to the Court of Appeal.

The Extemporaneous Character

of official procedure in rela-tion to Insurance work is well illustrated by Form Med. 39 and Form Med. 39 (a). It seems not to have occurred to the official mind that possibly more than one of the drugs on the war-price list might be ordered in the same prescription (though this was instantly apparent to pharmacists), and accordingly no arrangement was made for dealing with this contingency. The difficulty thus created having been pointed out to the Commissioners, a supplementary Form has now been issued for bringing such cases to account; but this, though it provides a way out of the difficulty, does so in the most inconvenient manner possible, making it necessary to use two forms where only one is really required. The extra trouble to the pharmacist is not very serious, but every new straw adds to his burden, and it is to be hoped that when the supply of the old forms is exhausted one will be forthcoming which can be used for all cases.

The Injustice Resulting to Chemists

from the proceedings of the Patent Medicine Committee and its Report is well illustrated by an article and a long letter signed "X. Y. Z." in the "New Statesman." The Committee was appointed "to inquire into the question of the sale of patent medicines," etc., and its Report ostensibly had these proprietaries alone for its subject. But it by no means kept strictly to the subject, the journalist commenting upon it was more discursive still, and now the correspondent, follows with a communication which correspondent follows with a communication which ignores altogether the original object of the inquiry and prejudices the whole case by a highly coloured account of the doings of Orlando Edgar Miller, of the Isleworth "Institute." Now, I am no champion of secret remedies as such, and I have always tolerated rather than encouraged the trade in them so far as my own business Statesman's," and the rank injustice of its correspondent, rather set my back up. These writers make no distinction between good and bad—or even between bad and worse. as they would probably prefer to put it—but condemn by implication all alike and everybody who deals in them. The mere facts that their composition is secret. and that they are supposed to carry a large profit, are

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(Chemical, Physical, and Photographic). Balances and Weights.

CHEMICALS FOR TECHNICAL AND ANALYTICAL PURPOSES.

Index Folio 816

A revolution in the art of Urine Testing."—Medical Press & Circular

ENDOLYTIC TUBES

"The Laboratory in the Waistcoat Pocket."

Wholesale Terms on application to the Sole Proprietors: FLETCHER, FLETCHER & Co., Ltd., HOLLOWAY, LONDON, N.

Editorial Articles.

Our War Diary.

When the European war broke out in August we had just commenced arrangements for the production of The Chemist and Druggist Diary, 1915. It was not possible then to foretell how far these arrangements would stand, but now that we have the Diary before us, and it will be in the hands of all our subscribers in the course of a few days, it is just as of old, saving the touch of gold on the cover. The war revealed the fact that the gold leaf was "made in Germany": we decided to replace it with British enamel, and in future years this will serve to distinguish the War Diary of 1915 from its predecessors. Internally also there are characteristics which mark the fact that the Diary has been produced during war. Thus a prefatory note to the Legal Advice Section says:

"The circumstances under which this Diary is produced are exceptional in the history of the world, the war between the British Empire, Belgium, France, Japan, and Russia on the one hand, and Austria-Hungary, Germany, and Turkey on the other, having upset relations, as well as commercial intercourse, between these nations. The immediate effect of the war upon the laws of the United Kingdom was seen in the stream of cmergency legislation, which began the day before war was declared (midnight, August 4, 1914), when an Act was passed to prevent financial disaster through the creation of a Moratorium. This Postponement of Payments Act saved the situation, and was followed by other Acts, besides a series of Proclamations, which modify commercial intercourse and personal relations and greatly extend Governmental power."

The references that follow in regard to these emergency laws and Proclamations are of value in respect to business relations overseas. This information will be of service while the war lasts to buyers abroad (a very important section of the C. A D. subscribers), as well as to those at home. The legal advice which this epitome introduces is on the lines which the C. & D. Diary has made familiar, but is not a mere reprint, for in addition to new information dictated by a year's experience of inquiries, it incorporates new Court decisions, changes in administration, and information up to November 24, 1914, as to alterations in taxation and proceedings under the Patents, Designs, and Trade-marks (Temporary Rules) Act, 1914. This section of the Diary is of special service to responsible persons in the drug and chemical business, as it deals concisely with the laws which bear upon the business, and which, in many cases unwittingly, are infringed so frequently as to make ready reference to the statutes and cases a preventive of error, and a first-aid in doubtful instances. The larger section of the contents begins, as is customary, with the Buyers' Guide to the goods advertised in the Diary. The advertisements appear to us to be of unusual interest; they are businesslike, showing or telling subscribers what the goods are and what they cost, and they are exceedingly comprehensive. The classification is natural and systematic, and the guide to the announcements is a most helpful aid, for thousands of articles are mentioned in them, and the forty-eight columns of index to the articles are an eminently time-saving device to all buyers in the trade. We have on the present occasion taken particular pains to make the directorial contents quite up to date; as, for example, in respect to chemists' local organisations in the United Kingdom, which is all new and occupies more space than before—an evidence of the increase in the number of such bodies. In the 1895 Diary thirty Associations were mentioned, and there were no more to include, apart from four national organisations. The 1915 Diary gives particulars of twenty-four national and 229 local organisations! Each one of the total of 253 represents considerable correspondence, besides actual editorial work, and much exercise of the art of getting twice as much matter into the same space as was used twenty years ago. The latter is an aim which dominates the whole of the contents. The Diary always contains several special monographs or treatises. This year we give an illustrated monograph on the preparation of display-cards and the like as accessories to chemists' windows. This begins the Business and Practice Section, and is followed by a lot of new information about dispensing under the National Insurance Act, and a series of useful comments, data, formulæ, and memoranda on the British Pharmacopæia, 1914. This comprises criticisms and explanations of the materia medica and chemical monographs, with useful tables where these elucidate the text, and under the galenical pharmacy monographs we include working formulæ with quantities in Imperial weights and measures. This treatise is designed to be of service to users of the new Pharmacopæia, for they will find it necessary to have such data and notes at hand, and in what more accessible form could these be than The Chemist and Druggist Diary? Our binders are turning out the Diary as fast as they can, and all subscribers should receive it (carriage paid to destination) not later than Monday, December 21; if not, they should advise us.

"A National Humiliation."

II.-Organic Chemicals.

It is not generally realised that our Government scheme which has been evolved for establishing the manufacture of aniline dyes on a large scale will also lead to the manufacture in this country of many synthetic drugs which, up to the commencement of the war, were obtained from Germany. It is true that the economic importance of throwing off the dominance of Germany is not so great in pharmacy as it is in the case of the textile industry, but as a matter of national pride alone it is momentous, because it is certain that trading with Germany eannot in future be carried on with the same cordiality as formerly. The creation of alternative sources of supply is therefore the more necessary. The new aniline-dye factory is not to concern itself with the raw or intermediate products which are required for the manufacture of dyes, and it follows that activity in these branches is bound to be promoted on account of the large scale of the operations of the new company. The primary raw material is coal, for the supply of which this country is in an unequalled position. From coal is obtained coal-tar as a by-product from gasworks or from the coke-ovens used for making hard coke for metallurgical purposes. It was thought some years ago that the increased use of electric light would have resulted in a decrease in the production of gastar, but experience has shown that the increase in the use of electricity has coincided with the greater application of gas for cooking and heating. The coke-ovens at work are capable of supplying an enormously increased

amount of tar, as relatively few of them at present condense this by-product before using the gas for heating-purposes. From coal-tar are obtained various hydrocarbons, neutral bodies, bases, and phenols, which form the starting-point in the manufacture of both aniline dyes and medicinal synthetic drugs, or are employed for producing a large class of intermediate products. Apart from this, the demand for wood-distillates must increase enormously, as such products as acetie anhydride and methyl alcohol are essential in the manufacture of synthetic chemicals. It is fortunate that the Government had decided to promote afforestation schemes in the United Kingdom, and so ensure in the future that supplies of wood will be available for distillation. We dealt with this subject as long ago as September 26 (ℓ . d· D., p. 72), and the inquiries which we have received from several parts of the Empire show that manufacturers are alive to the possibilities of wood-distillation, and the need (in view of the requirements of rubber plantations, mostly British) of being self-supporting in respect to the products. A similar need in respect to the textile industries makes it imperative for manufacturers to be independent of Germany for their supplies of dyes. We are aware that the leading German manufacturers are at present piling up stocks of dyes under the impression that our textile manufacturers will be clamouring for them immediately war is over. This is among the things that the Government scheme is designed to defeat, and since Manchester men have grasped the situation our faith in the success of the venture has increased. It may be expected that as the production of synthetic dyes increases in this country, so will the output of synthetic drugs increase; but in the meantime we learn that manufacturers connected with pharmacy have commenced to make organic chemicals which hitherto have been imported, and we trust that some of them will soon be able to announce the nature of the chemicals that they can supply. There is an excellent opportunity for such manufacturers, for there is no question of the fact that the public and traders generally are extremely desirous of encouraging British manufacturers, and doctors and chemists can do much to foster the home-production of organic chemicals by giving preference to them in prescribing and dispensing. The new British Pharmacopæia, with its hexamine and similar short names, will enable easy prescription of those chemicals which have, as Sir Dyce Duckworth says, " sesquipedalian names."

Drugs for Persia.

THE importation of drugs into Persia is comparatively insignificant, though it is understood that the majority of the imports come from India. It is possible that a fair proportion of the imports from India is of German origin. Occasionally drugs and chemical-products, such as borie acid, magnesia, cod-liver oil, glycerin, sulphuric acid, potassium chlorate, and others, have been imported from Hamburg. Over 12,000%, worth of drugs are reported to have been imported from Germany into the Persian Gulf ports in 1912-13, a value which is in excess of the imports from India. It is understood that Persian merchants are experiencing some difficulty in renewing supplies of drugs from Germany, but that country intends to lose no opportunity of resuming business relations, as is shown by correspondence (published in "The Times") which has passed between certain clients in Persia and

an important Berlin firm of chemical-manufacturers. The proposal is as follows:

on receipt of this letter kindly hand your letters, orders, and remittances for us to the German Ambassador at Teheran, who will find a way of forwarding the documents to us. We will then send you the goods through the medium of the Embassy, to whom you will kindly remit what is due to us by a cheque on Germany, Austria, or one of the neutral countries, such as Switzerland, Italy, Denmark, Sweden, Norway, etc., but not on the countries with whom we are at war.

The "Indian Trade Journal" has also looked into the matter of increasing India's drug-trade with Persia, and recommends that exporters should address H.M. Consular officers at the larger towns of Western and Central Persia -viz., Teheran, Ispahan, Yezd, and Kermanshah-sending to each a supply of price-lists and other literature. It is advisable that such business should be conducted through a forwarding agency in Bushire and the large towns. Names of such forwarding agencies can be obtained from the Commercial Intelligence Department of the "Journal" at Calcutta. Two possible methods of doing business suggest themselves:

A Teheran retailer, for instance, sends an order to a Bombay exporter. The exporter ships the goods to Bushire, and posts the documents to a forwarding agency there, requesting them to take delivery of and forward the goods to Teheran. On hearing from their Teheran branch that payment has been made by the indentor, the forwarding agency in Bushire would take delivery of the parcel and remit the exporter his due. This method is probably the simplest and most suitable. Intending exporters should communicate in advance with the forwarding agents in Bushire, with reference to terms, etc.

with reference to terms, etc.

Or alternatively, arrangements might be made with the up-country branches of the forwarding agencies for orders to be given through them.

Parcels weighing less than 5 kilos, and not measuring more than 60 cm. in any one direction can be sent by post. Postal parcels should, however, be addressed in the first instance to agents in the port of entry, where the ordinary inland rates have to be paid for their despatch up-country To the above we may add that although the potentialities of Persian trade are great, yet trading conditions and trade routes are hampered by the disturbed state of the country; but of late the Persian Government has undertaken active operations against certain tribes, with successful results. Further information regarding Persian trade is given in a British Consular report from Bunder Abbas, at which port the imports during 1913-14 reached the large total of 459,4631., or 31 per cent. more than the previous year. Exports, however, showed a slight decline, due in a great measure to decreased exports of asafetida, almonds, and pistachio-kernels. A substantial increase is, however, expected during the current year, in spite of the war.

New B.P. Doses.

WE have prepared, and have in the press for publication as early as possible, a card showing the strengths and doses of preparations of the British Pharmacopæia, 1914, which differ in strength from the similar preparations of the 1893 edition. The reverse of the card will contain tables of metric conversion factors and equivalences. The card will be suitable for the laboratory, pharmacy, and surgery. We shall supply it at 4d. each. 6d. for two, or 2s. 6d. per dozen, post free.

Stamp-duties.

THE report of the Commissioners of Inland Revenue for the last fiscal year (April 1, 1913, to March 31, 1914) was published this week.' It deals with 96,404,7487. of revenue derived from death-duties, stamp-duties, land-tax, inhabited-house duty, income and super taxes, and duties on land values. The receipts from stamp-duties amounted

to 9,983,3631., the highest single item being 1,408,2931. from transfer of stocks and shares, and the next highest 1,290,600l. stamp-duty on cheques. Alkali-works contributed 4,737l., representing duty on annual licences— 4,0021, from England, 5321, from Scotland, and 2031, from Ireland. The statistics given regarding limited companies and limited partnerships show growing numbers of the former and diminution in the latter; 7,549 eompanies were registered last year (there were 4,028 in 1903-4), and only 59 limited partnerships (the highest figure is 147 for 1908-9). Income-tax yielded 43,901,7631., the total of the assessed incomes being 764,196,856l.; and the super-tax amounted to 3,339,000l. paid by 12,202 persons on incomes exceeding 5,000%, and aggregating 153,589,2871. There are 74 persons in the United Kingdom with incomes exceeding 100,000l, a year. In connection with the stamp-duties we may recall the fact that medicine-stamps are now an Excise-duty outside the control of the Inland Revenue authorities.

Medical Certification of Insured Persons.

The National Health Insurance Commissioners have issued particulars of a new system of medical certification of insured persons in Great Britain which begins on January 1, 1915. The fundamental part of it is a uniform certificate to be issued by the Commissioners, and a uniform method of certifying. The certificates are to be issued in books, with counterfoils, of a size that doctors may carry. When an insured person becomes incapacitated from work through sickness or accident he has to get a first medical certificate on the first day of his incapacity, an intermediate medical certificate weekly while the incapacity lasts, and a final certificate the day before he resumes work. The essential particulars entered by the doctor are name, illness, date, society, and number. Provision is made for not mentioning the illness in the certificate given to the insured person. This is in exceptional cases only-viz.:

(i) Cases in which there are medical grounds for believing (i) Cases in which there are medical grounds for beneving that to communicate to the patient a precise statement as to the nature of his illness would be prejudicial to his health (as, for example, in certain cases of heart-disease, cancer, or incipient insanity).

(ii) Cases in which unjustifiable distress or injury would, it is the communication of the communica

(ii) Cases in which unjustifiable distress or injury would, it is feared, be occasioned to the patient by giving to other parties information as to the cause of the incapacity; as, for instance, in the case of certain diseases peculiar to women, and in those cases of venereal disease in which the doctor has satisfied himself that the withholding of precise information from the Society will not result in the insured person obtaining benefit which, if the disease were due to his misconduct, he might not be entitled to receive.

Nevertheless, the information will have to be given by the doctors to the Commissioners or Government referees. The memorandum (211/I.C.) respecting the new system is a clear demonstration of the need and value of this new provision, and it also gives particulars of the steps that are being taken to combat malingering, including the appointment of lay visitors and medical referees. So far as panel chemists are concerned the new system is chiefly of interest because it may expedite the return of insured persons to their work, and so relieve the Drug Fund of unduly prolonged medication.

TONKA-BEANS.—The exports of tonka-beans from Venezuela during the financial year ended June 30, 1913, amounted to 381 tons, valued at 107,240?. The British Consul for the Caracas district, in his annual report for 1912-13, states that "the tonka-bean crop has this year also falsified the expectations of speculators, and many of them have sustained losses through having based their calculations on a large crop and consequent low prices, and signed contracts with American tobacconists for delivery at \$80 gold per 100 lb. (46 kilos.). whereas they had to pay \$90 gold in order to fulfil their engagements."

The British Pharmacopoeia 1914.

Notes on the new Pharmacopæia, which will come into force on December 31, 1914.

The Chemical Monographs.

(Continued from the "C. & D.," December 12, p. 46.)

The following contractions are employed: C.R., Recommendation of the Committee of Reference in Pharmacy; m.p., melting-point; h.p., boiling-point; app., approximately; sp. gr., specific gravity; sol., solubility; syn., synonym; the meaning of other abbreviations will be sufficiently evident. The symbols Pb and As have been used in dealing with the lead and arsenie limits. All temperatures are given in degrees Centigrade.

ZINCI OXIDUM.

The ammonia-test for metallic zinc is dropped, and it The ammonia-test for metallic zinc is dropped, and it is now required to be soluble in dilute hydrochlorie acid without separation of black particles. A limit for manganese (see under Zinci Sulphas) and an As limit of 10 parts per million are introduced. It is stated to give not more than the slightest reaction with the tests for lead (formerly no characteristic reaction).

ZINCI SULPHAS.

ZINCI SULPHAS.

As limit, 5 parts per million. The following limit-test for manganese in this and other zine salts is given under Zinci Sulphas: When the given quantity is dissolved in water, excess of solution of ammonia added, and the mixture allowed to stand, any precipitate that is obtained being filtered off and dissolved in dilute nitric acid, then this acid solution diluted with water to about 15 millilitres and heated to boiling does not acquire more than a faint pink coloration on the addition of 1 millilitres of decinormal solution of silver nitrate and 10 millilitres of an aqueous solution (1 in 10) of ammonium persulphate. The quantities of the various zinc salts to be taken for this test are: zinci acetas, 0.5 gram; zinci carbonas, 0.2 gram; zinci chloridum, 0.25 gram; zinci oxidum, 0.2 gram; zinci sulphas, 0.5 gram; and zinci valerianas, 0.2 gram.

Zinci Valerianas.

ZINCI VALERIANAS.

Description and solubilities unchanged. When heated to redness, after moistening with a little nitric acid, should yield not less than 26 per cent. or more than 27 per cent. of ZnO (formerly 26 per cent. to 30 per cent.). The test for butyrates is retained. A limit for manganese (see under Zinci Sulphas) and an As limit of 5 parts per million are introduced.

Alkaloids and Alkaloidal Salts.

These observations are written so that readers may com pare them with the corresponding monographs in the B.P.

Aconitina.

ACONITINA.

Formula given is C₃₄H₄₅NO₁₁ (formerly it was C₃₄H₄₅NO₁₂, that being Dunstan's original formula). The French Codex and U.S.P. use Freund's formula, C₃₄H₄₇NO₁₁. M.p. 198°, at which temperature evolution of acetic acid occurs (previously 189° to 190°). M.p. of the hydrochloride 149° (as B.P. 1898). The concentration of the solution which produces tingling on the tongue is given as 1 in 10 000 instead. oduces tingling on the tongue is given as 1 in 10,000, instead of 1 in 1,000. The permanganate identification-test is retained; the new tests are hydrolysis with N/2 alcoholic KOH and extraction of the benzoic acid with ether, and an odour and colour test with sulphurie acid and resorcin. No

APOMORPHINE HYDROCHLORIDUM

The reference to preparation from codeine is omitted, and the formula is now given with half a molecule of water—viz., (C₁₇H₁₇NO₂.HCl)₂H₂O. Sol. 1 in 60 of water (formerly 1 in 50), and 1 in 50 of 90-per-cent. alcohol (C.R.). merty 1 in 50), and 1 in 50 of 90-per-cent, alcohol (C.R.). Solutions are stated to remain unchanged for a considerable time if acidified with a trace of hydrochloric acid. The tests with sodium bicarbonate and ferric chloride are retained, but the nitric-acid reaction is omitted. The sentence "If the salt . . . should be rejected" is deleted (C.R.). Dose: By hypodermic injection, 3 to 6 milligrams, or \(\frac{1}{10} \) to \(\frac{1}{4} \) grain, by the mouth, 6 to 16 milligrams, or \(\frac{1}{10} \) to \(\frac{1}{4} \) grain.

ATROPINA.

Described as "an alkaloid obtained from Atropa Belladonna, Linn., and other plants of the Solanaceæ" (C.R.). Sol. 1 in about 500 of water (formerly 1 in 300). M.p. 114.5° to 115.5° (previously 115° to 115.5°). The aurichloride test is slightly modified (m.p. of the aurichloride,

137° to 139°), and the nitrie-acid and potassium-hydroxide test is retained. Required to give a colourless solution with 20 parts of sulphuric acid, and to remain colourless on the addition of a trace of nitric acid. A test for apoatropine is introduced, and the mercuric-chloride test is omitted.

Dose: 0.3 to 0.6 milligram, or zoo to zoo grain.

Atropinæ Sulphas.

Sol. in less than 1 part of water (formerly 1 in 1) and 1 in 4 of 90-per-cent. alcohol (previously 1 in 10), the solutions being neutral. M.p. 189° to 190° (instead of 183°). It should not respond to the test for apoatropine, nor to the test with sulphuric and nitric acids given under atropine. When dried at 105° should lose not more than 2 per cent.

Dose: Same as the alkaloid.

CAFFEINA.

M.p. 235° (no definite temperature given in 1898 B.P.). Loss when dried at 100° not more than 8.5 per cent. (C.R.), and the dried alkaloid begins to volatilise at a slightly higher temperature, and sublimes readily at about 180°. It is required to dissolve without colour in 10 parts (w/v) of sulphuric or nitrie acids. The tests of the 1898 B.P. are retained, with the addition that a cold saturated aqueous solution is not precipitated with N/10 solution of iodine.

Dose: 6 to 30 centigrams, or 1 to 5 grains.

CAFFEINE CITRAS.

The amount of water used in making this is much reduced. We give the formula in imperial weights:

Caffeine 1 oz. 28 grains Citric acid, in powder ... 1 oz. 28 grains Distilled water ... 135 minims

Mix the caffeine with the citric acid, moisten the mixture with the distilled water, and dry on a water-bath, with constant stirring (C.R.). Sol. 1 in 4 parts of hot water, but dissociating on the further addition of water with separation of eaffeine, which completely redissolves in 32 parts of water. The loss on drying at 100° should not exceed 1 per cent. (C.R.), and it is required to yield 45 per cent. of caffeine when an alkaline solution is shaken out with chloroform.

Dose: 12 to 60 centigrams, or 2 to 10 grains.

Dose: 12 to 60 centigrams, or 2 to 10 grains.

COCAINA.

M.p. 98° (formerly 96° to 98°). The solubility in olive oil is given as 1 in 24 (previously 1 in 12), and the solubility in oil of turpentine is omitted. The tests for sulphates and chlorides have been deleted.

COCAINÆ HYDROCHLORIDUM.

M.p. 182° to 186° (formerly 180° to 186°). Sol. 1 in 3 parts of 90-per-cent. alcohol (previously 1 in 4) (C.R.), and the solubility in glycerin is omitted. The U.S.P. test for cinnamyl-cocaine and other coca alkaloids is adopted (C.R.): the nitric-acid and alcoholic-potash test, the limit of amorphous alkaloid, and the limit of moisture as given in the 1898 B.P. are retained. The auric-chloride, ammonium-carbonate, and borax tests and the test for sulphates are omitted. omitted.

Dose: 6 to 16 milligrams, or $\frac{1}{10}$ to $\frac{1}{4}$ grain.

CODEINA.

M.p. 155° to 156°. The solubility in ether and the requirement that it should yield no ash on incineration are omitted, otherwise the monograph is practically unchanged.

Dose: 16 to 60 milligrams, or \(\frac{1}{4} \) to 1 grain.

CODEINÆ PHOSPHAS.

Sol. 1 in 3.5 parts of water (formerly 1 in 4). The requirement that chlorides and sulphates should be absent is omitted. The formula is given with 2 molecules of water, instead of 1½-viz., C₁₆H₂₁NO₃,H₃PO₄,2H₂O (C.R.). Dose: Same as the alkaloid.

DIAMORPHINÆ HYDROCHLORIDUM.

Syn. Diacetylmorphine Hydrochloride.

The acctomorphine hydrochloride of the Codex, also known by the trade-name of heroin hydrochloride. M.p. 231° to 232°. Sol. 1 in 3 parts of water (Codex gives 1 in 2) and 1 in 11 parts of alcohol. Identification-tests and a test for the absence of morphine are given. The name "diamorphine" cannot be regarded as satisfactory, as it gives no indication of the presence of the acetyl radicle on which the special properties of the compound depend.

Dose: 2.5 to 8 milligrams, or 2½ to ½ grain.

HOMATROPINE HYDROBROMIDUM.

Sol. 1 in 18 parts of 90-per-cent. alcohol (formerly 1 in 133 parts of absolute alcohol). The test for atropine and the identification-test with mercuric chloride are retained, but

the chlorine and potassium-hydroxide tests and the requirement that it shall leave no appreciable ash on incineration are omitted.

Dose: 1 to 2 milligrams or \(\frac{1}{64} \) to \(\frac{1}{32} \) grain.

HYOSCINÆ HYDROBROMIDUM.

Syn. Scopolamine Hydrobromide.

Syn. Scopolamine Hydrobromide.

Sol. 1 in 4 parts of water (formerly 1 in 1). No meltingpoint is given. The auric-chloride test is slightly modified, and the aurichloride should melt at 198° to 200°. The mereurie-chloride, iodine, and potassium-bichromate tests are omitted; sodium hydroxide is employed in place of potassium hydroxide in the alkali-test, and the nitrie-acid colour reaction given under atropine is included in the monograph. Dose: 0.3 to 0.6 milligram, or $\frac{1}{200}$ to $\frac{1}{100}$ grain.

HYOSCYAMINÆ SULPHAS.

M.p. 205° to 204° (formerly 206°). The solubility in alcohol is omitted. M.p. of the aurichloride, 165°. It should dissolve in sulphurie acid without coloration, and

should yield no appreciable ash.

Dose: Same as hyoscine hydrobromide.

MORPHINÆ ACETAS.

The solubility in alcohol is omitted. Two grams is required to yield from 1.41 to 1.44 gram of morphine (formerly 1.42). No appreciable ash.

Dose: 8 to 30 milligrams, or $\frac{1}{8}$ to $\frac{1}{2}$ grain.

MORPHINE HYDROCHLORIDUM.

MORPHINE HYDROCHLORIDUM.

Sol. 1 in 25 parts of water (formerly 1 in 24) (C.R.). The solubility in boiling water and in alcohol is omitted. Identification-tests are given, as well as tests for the absence of apomorphine and certain other alkaloids, and a test for distinction from morphine esters. Two grams is required to yield 1.50 to 1.52 gram of morphine, dried first at 55° to 60° and finally for fifteen minutes at 115° (formerly 1.51 gram dried first at 55° to 60° and finally at 110° for twenty minutes). It should lose about 14 per cent. of its weight when dried at 100°. No appreciable ash.

Dose: Same as the acetate.

MORPHINE TARTRAS.

Two grams is required to yield from 1.46 to 1.49 gram of morphine (formerly 1.47 gram). No appreciable ash. Dose: Same as the acetate.

PELLETIERINÆ TANNAS.

A mixture of the tannates of the alkaloids obtained from pomegranate root and stem bark. Slightly soluble in water, more so in 90-per-cent. alcohol. Heated to 150° turns brown, softens at about 160°, and decomposes without melting at a higher temperature. No appreciable ash.

Dose: 12 to 50 centigrams, or 2 to 8 grains.

Physostigminæ Sulphas.

The water of hydration is omitted from the formula. The water of hydration is omitted from the formula. It is described as minute white crystals, becoming yellowish on exposure to air and light (formerly yellowish-white minute crystals, becoming red by exposure to air and light). Dose: 1 to 2 milligrams, or $\frac{1}{64}$ to $\frac{1}{32}$ grain.

PILOCARPINÆ NITRAS.

Sol. 1 in 8 parts of water (formerly 1 in 8 or 9 parts); solubility in 90-per-eent. alcohol omitted. M.p. about 176° (no m.p. given in B.P. 1898).

Dose: 3 to 12 milligrams, or $\frac{1}{2^{10}}$ to $\frac{1}{5}$ grain.

QUININE HYDROCHLORIDUM.

Sol. 1 m 36 parts of water (formerly 1 in about 35 parts) and 1 in 2 parts of 90-per-cent. alcohol (previously 1 in 3 parts). The thalleioquin reaction is included as an identity-test. A limit-test for other cinchona alkaloids is introduced, and no characteristic reaction should be obtained with the tests for barium and sulphate. One gram should dissolve in 7 millilitres of a mixture of two volumes of chloroform and one volume of absolute alcohol. Loss on drying at 100° not more than 9.1 per cent. No appreciable ash.

Dose: 6 to 60 eentigrams, or 1 to 10 grains.

QUININÆ HYDROCHLORIDUM ACIDUM.

Species of Remijia are not given as sources of the alkaloid. One gram should require not more than 5 milblitres of N/1 NaOH for neutralisation (phenolphthalein indicator), compared with 2.5 c.c. (no indicator specified) in B.P. 1898. The thalleioquin reaction is given as an identity-test, and a limit-test for other cinehona alkaloids is introduced. Should lose not more than 3 per cent. when dried at 100° (formerly 12 per cent.). No appreciable ash.

Dose: Same as the hydrochloride.

QUININÆ SULPHAS.

QUINIXE SULPHAS.

Species of Remijia are not given as sources of the alkaloid. The formula of the B.P. 1898 is halved. Sol. 1 in 800 parts of water (formerly 1 in about 800 parts); 1 in 65 parts of 90-per-cent. alcohol (no solubility in alcohol given previously). One gram is required to dissolve in 7 millilitres of a mixture of 2 volumes of chloroform and 1 volume of absolute alcohol. The loss on drying at 100° is omitted, and in the place of the special tests for cinchonidine, cinchonine, quinidine, cupreine, and amorphous alkaloids a limit-test for other cinchona alkaloids is introduced. No appreciable ash.

Dose: Same as the hydrochloride.

Dose: Same as the hydrochloride.

STRYCHNINA.

No mention is made of solubility in chloroform, absolute alcohol (cold and boiling), or ether. The sulphuric-acid and permanganate test is omitted (C.R.), and the nitric-acid test for brucine, with which it was impossible to comply, is deleted, the following limit-test for brucine replacing it: "Sulphuric acid forms with it a colourless solution, which, on the addition of nitric acid, acquires not more than a faint pink colour." No appreciable ash.

Dose: 1 to 4 milligrams, or $\frac{1}{16}$ grain.

STRYCHNINÆ HYDROCHLORIDUM.

STRYCHNINE HYDROCHLORIDUM.

Sol. 1 in 60 parts of water (formerly 1 in 35). Solubility in 90-per-cent. alcohol omitted. Should lose from 7 to 9 per cent. on drying at 110° (C.R. recommended not more than 8 per cent.), compared with 7.3 to 8.8 per cent. at 100° in B.P. 1898. The requirement that sulphate shall be absent is omitted. No appreciable ash. In accordance with the recommendation of the Committee of Reference in Pharmacy, the formula given in the 1898 B.P. (2 molecules of water of hydration) remains. (The Codex states that the evidence available is distinctly in favour of 1½ molecules of water.) of water.)

Dose: Same as the alkaloid.

Dose: Same as the alkaloid.

THEOBROMINÆ ET SODII SALICYLAS.

Na₂C1₁4H1₂N₄O₂. Obtained by combination of sodium hydroxide, theobromine, and sodium salicylate in molecular proportions. Better known under the trade-name of "Diuretin." Sol. 1 in 1 part of water; soluble in 90-percent, alcohol; insoluble in ether and chloroform. Identification-tests are given, including the murexide reaction, and it is required to yield not less than 40 per eent. of theobromine and 35 per eent. of salicylio acid when tested by the given process, in which the theobromine is precipitated, filtered after standing a given time, washed twice with specified quantities of water, and weighed, and the salicylie acid is shaken out with ether, dried at 60°, and weighed. It is directed to be kept in stoppered, ambercoloured bottles.

Dose: 6 to 12 decigrams, or 10 to 20 grains.

Dose: 6 to 12 decigrams, or 10 to 20 grains.

The following list of corrigenda has been issued, and will be inserted in copies of the B.P. when published:

Page	line				
46	9)				
48	13	after	copper,	insert	arsenium,
106	13	for	cresol	read	creosol
107	6	for	1.045	read	1.040
137	20	for	90	read	70
143	22	before	Extract	insert	Dry
161	30	for	2	read	4
165	33	for	0.100	read	0.200
190	25	after	Injection	insert	is of one-half the strength
		,		orrespondi	ng preparation of the British
				copœia, 18	
262	5	tor	sodium	read	potassium.
380	16	for	0.17	read	0.18
381	11	for	017	read	0.18
381	12	for	0.057	read	0.0057
390	29	for	decimils	read	decigrams
427	3	for	50	read	30
428	23	for	90	rend	60
453	16	for	15 to 17	read	12 to 14
455	13	for	20	read	24
474	14	jor	100	read	1000

Among the corrections included in the above table are the requirement that oxide of and tartarated anti-mony are not to yield characteristic reactions for arsenium in addition to the other metals already mentioned. Creosote is now stated to consist chiefly of guaiacol and creosol (instead of cresol). The specific gravity of cresol is corrected to 1.040 to 1.050. In the preparation of extractum hyoscyami 70-per-cent. alcohol is to be used instead of 90-per-cent. The arsenie-limit of glycerin is corrected from 2 to 4 parts per million. The extractive required to be yielded by liquorice-root. is doubled (from not less than 0.100 gram to 0.200

A note is added to the gram from 1 gram of root). monograph on injectio cocainæ hypodermica that it is onehalf the strength of the corresponding preparation of the B.P. 1898. Errors in the content of ferrous phosphate have been corrected as regards syr. ferri phosph. and syr, ferri phosph, cum quininâ et strychninâ, and also as to quinine in the case of the latter syrup. The metric doses of theobromine and sodii salicylas and tr, stro-phanthi have been corrected. In the case of tinct, valer. indica ammon. 60-per-cent. alcohol is to be used, the same as in tinct. valer. ammon. The alcohol-content of vinum aurantii, which was given as 15 to 17 per cent., is reduced to "12 to 14 per cent."—it was 10 to 12 per cent. in the B.P. 1898.

A separate list of corrigenda, which we do not reproduce, refers to the index. The retail price of the British Pharmacopæia is to be 10s. 6d. net, and it is only supplied to wholesale houses on condition that this price is not cut.

PHARMACEUTICAL SOCIETY OF IRELAND.

THE Council met at 67 Lower Mount Street, Dublin, on Tuesday, December 9 N. J. Dublin, on Tuesday, December 8, Mr. D. M. Watson (President) in the chair. Dr. J. A. Walsh, Messrs. Thomas Batt, J. H. Bowden, John Burnett, John Smith, and W. F. Wells were also present.

VOTE OF CONDOLENCE.

The President proposed a vote of sympathy with the family of the late Professor Patrick Kelly, Ph.C., marking that many of them had known Professor Kelly for many years, and some had had the benefit of his tuition. His connection with the Society had been a prolonged one, and a very honourable one.

Mr. Smith, in seconding, said he had known Professor Kelly perhaps longer than any member of the Council present. It was over thirty years since he joined the staff of Evans, Dawson Street, where Mr. Kelly was then employed. He had never known a more thoroughly upright man. He was upright in all his dealings, and in everything that appertained to the Pharmaceutical Society or to his business his actions were above reproach.

The vote of sympathy was passed in silence.

Correspondence.

The following letter was received from Mr. H. Conyngham, Ph.C., in acknowledgment of a vote of sympathy with the family on the death of Captain C A. T. Conyngham, R.A.M.C., who was killed during the fighting in East Africa:

"40 Waterloo Road, Dublin,
December

December 7, 1914. December 7, 1914.

Dear Mr. Ferrall,—I and my sons thank you for your kind letter conveying the resolution of the President and Council of the Pharmaceutical Society in our bereavement in the loss of a brave son and brother. Words cannot express our sorrow. Please thank the President and each one of the Council on our behalf, including yourself.—I am, dear Mr. Ferrall, yours very sincerely, H. Conyngham."

A communication was received from the University of Paris and other French Universities, indicating the responsibility of Germany for the outbreak of the war, and referring to the destruction of the University of Louvain by the Germans, the damaging of Rheims Cathedral, and the hurling of incendiary bombs on the Cathedral of Notre Dame, Paris. The Registrar was directed to acknowledge the communication and to express the sympathy of the Council with the French and Belgian nations.

A communication was submitted from the Colonial Office transmitting a copy of an Act respecting the Pharmaceutical Association of Manitoba.

The President said they had already received a communication from the Colonial Office suggesting that if a case of hardship in reference to one of their Licentiates came under their notice they should report it. So they might take it that Manitoba would recognise their certificates in future.

A letter was read from Mr. H. Brindle, of the Manchester College of Pharmacy, regarding the recognition of that school, and the Registrar was directed to state in reply that the Council, after consideration, could not see their way to add the College to the list.

The Registrar submitted a communication from Mr. John Graham, solicitor, reporting that Mr. John A. McRoberts, R.D., had been fined 10l., with 20s. costs, for compounding and for keeping open shop.

DEATHS OF PHARMACISTS.

The Registrar submitted a letter from Mr. Hugh P. Montgomery, of Callan, co. Kilkenny, notifying the deatls of his father, Mr. Hugh Montgomery, Ph.C. Certificates of the deaths of Mr. Patrick Kelly, M.P.S.I., South Richmond Street, Dublin, and of Mr. Wm. Tedlie Moore, chemist and druggist, Letterkenny, co. Donegal, were also received.

Changes of Address.

Communications were submitted from the following, notifying changes in their addresses:

J. R. Coleman, Ph.C., from Bailieboro to the Medical Hall, 74 Main Street, Cavan. / James Leslie, Ph.C., from 3 College Street to 12 Lower Crescent, Belfast.

Crescent, Belfast.

J. A. Ray, Ph.C., to 34 South Frederick Street, Dublin.

J. Howard, Ph.C., from Grealy's Medical Hall, Galway, to Howard's Medical Hall, Kilrush, co. Clare.

C. P. Fairweather, Ph.C., to Royal Hotel, Howth, co. Dublin.

A. Donaghy, Ph.C., to the Broadway Pharmacy, Ballymena

James Dale, Ph.C., to the Medical Hall, Dromore, co-Down. George Black, R.D., to 149 Mulholland Terrace, Falls

Road, Belfast.
S. P. Cullen, R.D., to the Drug Hall, 4 Laurence Street,

Drogheda.
Robert Mulligan, R.D., to 154 Hanson Street, Wellington, N.Z.

MEMBERSHIP.

Cn the motion of Mr. Wells, seconded by Mr. Bowden, Mr. Alfred Ernest Ferris, Ph.C., of Oughterard, co. Galway, was nominated for membership.

On the motion of Mr. Blair, seconded by Mr. Batt, the following were elected to membership: Mr. James Joseph McHenry. Ph.C., 1 Belmore Terrace, Enniskillen 5 Mr. William Smullion. Ph.C., 38s South Richmond Street, Dublin; and Mr. Alex. Wm. Young, Ph.C., Boyers' Medical Hall, 20 Knox's Street, Sligo.

ELECTION OF EXAMINER.

Mr. W. Johnston, B.A., Q.U.B., Penralt, Booterstown Avenue, co. Dublin, was elected an examiner for the Preliminary examination.

REPORTS OF COMMITTEES.

Reports from the Law Committee, the House Committee, and the School Committee were received and adopted.

ELECTION OF A PROFESSOR.

On the recommendation of the School Committee, Mr. George Brownlee, B.Sc., Professor of Theoretical Chemistry, was appointed Professor of Practical Chemistry, rendered vacant through the death of Professor Kelly. Professor Brownlee intimated that, if the Council entrusted him with the Professorship of Practical Chemistry, he desired to relinquish that of Theoretical Chemistry as soon as a successor is appointed.

JAPANESE MEDICINES FOR CHINA.—A flourishing little trade is done in proprietary medicines, of which China and Kwantung took in 1913 117.000%, from Osaka and Kobe, They are mostly in the form of pills which claim to be specific against most of the minor ills of life. The Japanese themselves consume considerable quantities, and sales in China appear to be growing.—British Consular Report.

appear to be growing.—British Consular Report.

Peptone-free Medium.—Mr. S. R. Douglas, in "The-Lancet," states that he has discovered a very efficient medium for growing tubercle bacilli which does not involve the use of Witte's peptone, the supply of which is cut off. Bullocks' hearts are used, and it is stated that the method of preparing the medium is more simple and easier than Haffkine's method.

WINTER SESSION

of Meetings of Trade Associations.
Others are reported under "Insurance Act Dispensing" when the subjects pertain chiefly to that Section.

Blackpool.—A meeting of the Blackpool and Fylde Pharmacists' Association was held at the Palatine Hotel on December 11. Mr. Huddart (President) was in the chair, and there were twelve other members present. Mr. Bailey (Hon. Secretary) reported that over 10l. had been subscribed by members to the Pharmaceutical Parliamentary Fund. In regard to the stock-mixture clause in the 1915 Drug Tariff, the Secretary reported that the Pharmaceutical Committee had obtained an undertaking from the Panel Committee that the clause would be made inoperative. The Deputy Town Clerk having informed the Secretary that no evening-closing order can be made for chemists and druggists, no further action is to be taken. The elosing hours agreed upon are to be those fixed for grocers' shops by the closing order in force in the borough, and the hours Blackpool.-A meeting of the Blackpool and Fylde Pharhours agreed upon are to be those fixed for grocers' shops by the closing order in force in the borough, and the hours for reopening on Wednesday half-holiday 6.30 P.M. to 8 P.M. It was also decided that members should open their pharmacies as on Sundays during the Christmas and New Year holidays. It was decided not to hold the annual dinner this session. The members present agreed to supply any Bolgien

It was also decided that members should open their pharmacies as on Sundays during the Christmas and New Year holidays. It was decided not to hold the annual dinner this session. The members present agreed to supply any Belgian refugee with any medicine or appliance ordered by a local doctor free of cost to the patient, and to establish a central fund from which the chemist would be paid at cost price.

Dewsbury.—At a meeting of the local Pharmacists' Association on December 14, Mr. R. Broadhead (Batley) read a paper entitled *Personal Views on National Dispensing. In this he traced in piquant style the enactment of Mr. Lloyd George's measure in 1912; how he met the doctors' revolt by disgorging a million and a quarter for their benefit; the fight that chemists had against the attempt of doctors to smash them; what happened when Medical Benefit came into force—packed surgeries, the discovery by chemists of the enormous medicine-swallowing capacity of the public, and other strange things incident to new conditions. Mr. Broadhead remarked that the medical profession had been somewhat surprised by the masterly manner in which pharmacists had coped with these conditions. During the first few months pharmacists had a terrific strain put upon them, but they stood it. Now they had come out of the trenches, and the only cause for anxiety is the recompense for work well and faithfully done. Some doctors had not played the game, he said, for attempts to prejudice insured persons against the pharmacist were not isolated. In this country there are eertain kinds of culture which ought to be spelt with a "k"; but the pharmacist claims to be cultured, so far as his calling is concerned, and Mr. Broadhead regretted that all pharmacists culture which ought to be spelt with a "k"; but the pharmacist claims to be cultured, so far as his calling is concerned, and Mr. Broadhead regretted that all pharmacists are not above suspicion. They had been sorely tried, but they signed a scrap of paper with their eyes open, and are honourably bound to fulfil their obligations. He feared the pharmacists had lost caste by bothering the Commissioners and the Insurance Committees with matters which they really ought to settle themselves. The dignity of pharmacy is not enhanced by the petty squabbles which had been brought before the powers that be, and eventually referred to the Pharmaceutical Committee for settlement. Their elaborate organisation could not be of much service Their elaborate organisation could not be of much service tabless they had a code of ethics, a graceful etiquette, and a loyal and self-sacrificing recognition of the axiom that the well-being of the whole body results in the welfare of each individual. There was no discussion.

Edinburgh.—At last week's meeting of the local Chemists', Assistants', and Apprentiees' Association, Mr. W. Lockerbie Thomson, B.Sc., presiding, Mr. J. Adamson read a paper on The Need of a New Policy This consisted of a trenchant criticism of the Pharmaceutical Society of Great Britain, and suggestions in regard to some of the things that the author thought the Society should do through a Business Committee with headquarters in London and Edinburgh, viz: (1) Look after apprentices; (2) face the hours of labour question in a business manner; (3) do something to restrict the number of chemists in proportion to the population; (4) deal firmly with the patent-medicine question, insisting on 20 per cent. profit to the retailer; and (5) do something to ensure that panel chemists get 100 per cent. of their accounts. Messrs. Murray, Rowland, Hill, Tait, and Thomson discussed the paper. It was felt that what is needed is not additional machinery, but greater activity on the part of individual pharmacists and an energetic and loyal use of the existing organisation.

Hampshire.—The annual general meeting of the Hamp-

Hampshire. -The annual general meeting of the Hampshire Pharmacists' Association was held at Eastleigh on December 9. The President (Mr. F. E. Bilson) presided. The Secretary, in his annual report, reviewed the year's work. The membership is now seventy-six, compared with fifty at the end of last year. The Treasurer reported that there are still about twenty members who have not paid their subscription. In spite of this and a grant of seven guineas to the Pharmaceutical Parliamentary Fund, there is a small balance on the right side. The sum of two guineas was voted to the Belgian Doctors' and Pharmacists' Relief Fund. The following officers were elected for the coming year: President, Mr. F. E. Bilson; Vice-Presidents, Mr. A. E. Chaston (Winchester) and Mr. C. S. Davies (Havant); Treasurer, Mr. S. G. Bartlett (Winchester); Secretary, Mr. C. H. Baker (Cosham). Three new members were elected—Mr. Howard (Fareham), Mr. B. Cooper (Hambledon), Mr. Kirkman (New Milton). Mr. Withite (Clerk to the Insuranco Committee) then gave particulars as to the position of the Drug Fund in the county. At the present time the Fund is sufficient, but, in view of the large increase in the cost of certain drugs, it will require every care to keep so. The first quarter in 1914 52,900 prescriptions were dispensed (average eost, 8.31d.); the second quarter, 37,000 (average cost, 8.41d.); third quarter, 26,629 (average eost, 8.05d.). Mr. H. Wilson, at the invitation of the President, gave a short account of the principal alterations in the new edition of the British Pharmacopeia. Mr. Griffiths, prescription-checker, gave an account of his work and the difficulties that he had to contend with. Owing to the lack of time, the paper, "Tho Business Side of Pharmacy," by Mr. T. O. Barlow, of Southsea, had to be left over for a future meeting.

Hull.—A meeting of the Hull Pharmacists' Association was held at the Grosvenor Hotel on December 15, Mr.

Hull.—A meeting of the Hull Pharmacists' Association was held at the Grosvenor Hotel on December 15, Mr. T. W. Robinson (the President) in the chair. A letter having been sent to the Pharmaceutical Society drawing attention to the fact that in the 1915 Tariff some drugs were at cost price and some below, a letter had been received in reply stating that the facts pointed out had been most carefully considered, otherwise the prices would have been much higher. A complaint having been made that a private arrangement existed between a certain doctor and a pharmacist on the panel for the supply of medicines, a letter was read from the Insurance Committee stating that both parties had expressed regret, and had been warned that the praetice must be discontinued. In the circumstances, the Insurance Committee did not propose to take any further action. An intimation had been received with regard to recent resolutions passed by the Association on Tariff matters that the Association has no locus standi, such representations properly coming from -A meeting of the Hull Pharmacists'

pose to take any further action. An intimation had been received with regard to recent resolutions passed by the Association on Tariff matters that the Association has no locus standi, such representations properly coming from the Pharmaceutical Committee. The President said he thought the excess on the Drug Fund might arise in some measure from repeat mixtures, as in a case which had come to his notice a girl found herself with an excess of tablets, which she gave to her sister in the hope that they would benefit her also. Mr. T. Smith said that at the recent conference in London the definite hope was held out that the Government would help them in the matter of the deficiency in the Drug Fund. He moved that inquiry be made as to how Hull stands as compared with other towns in the matter of the dispensing-fee, so that they might be prepared when the matter came to be settled, which it would do in a short time. The meeting agreed to this course.

London (E.).—A meeting of the East London Pharmacists' Association was held at The Restaurant, Limehouse, on December 10, Mr. Keith (Vice-President) in the chair. A copy of a circular letter sent by the South-East London Association to panel doctors in their district was received from the Secretary of the London County Executive, with a suggestion that the East London Association might consider the question of issuing a similar letter to the practitioners in Stepney and Poplar. The circular pointed out the hardship inflicted upon chemists by having their bills discounted, and suggested that the deficiency in the Drug Fund might be minimised if doctors exercised reasonable economy in prescribing. It was decided that East London doctors be circularised on similar lines. The Special Committee appointed to draw up a retail price-list reported that some of the local retailers refused to accept it, and therefore its adoption could not be recommended to members of the Association. It was decided, however, to print the list as a guide. The Special Committee appointed to deal w

general, especially in "breaking bulk." The speaker informed the meeting that Greenwich chemists had already discontinued the sale of small quantities of a proprietary pill, with results advantageous to themselves. The ensuing discussion showed a strong desire on the part of the meeting to do likewise, and after a formal resolution had been part to do likewise, and after a formal resolution had been put to the meeting it was decided to adopt the same plan in

London (N.).—A "fireside social" of the North London Pharmacists' Association was held, by permission of the President (Mr. J. Hearle) and his wife, at 29 Grange Road, Highbury There was a good attendance, and Mr. L. Bayley read a paper on "A Visit to Belgium," illustrating it with photographs of the country as it was before its devastation by the Germans. Refreshments were supplied, and afterwards a musical programme was gone through in which almost everyone took part either in a song, recitation, or on the pianoforte. London (N.).-A "fireside social" of the North London

or on the mianoforte.

London (W.)—A meeting of the Western Pharmacists' Association was held at the Restaurant Frascati, Oxford Street, W., on Thursday evening, December 10, Mr. A. R. Melhuish (President) in the chair. After the Chairman had reported on recent proceedings of the London County Association Executive and the London Pharmaceutical Committee, Mr. G. A. Tocher, in reply to a question, stated that the objects of the Pharmaceutical Society's Deputation to Mr. Masterman are to present figures relating to the Association Executive and the London Pharmaceutical Committee, Mr. G. A. Tocher, in reply to a question, stated that the objects of the Pharmaceutical Society's Deputation to Mr. Masterman are to present figures relating to the state of the Drug Fund in areas which had been heavily discounted; to see what can be dono in regard to the discounting clause; and to press that the cost of drugs should be a first charge on the Medical Benefit Funds. The President then introduced Mr. F. W. Gamble, who opened a discussion on the code of rules for securing Unitormity in the Dispensing of Albormal Prescriptions, put forward by Mr. E. Saville Peck at the Chester meeting of the British Pharmaceutical Conference. Regarding illegible prescriptions, the considered that no prescription should be really illegible to a trained pharmacist; if the names of preparations or the quantities cannot be read, they can be recognised. In regard to the question of excessive doses, he pointed out that the preface to the new B.P. puts the onus for dispensing an excessive dose on the pharmacist. The pharmacist will therefore be within his rights in refusing to dispense such doses. If the excessive dose was initialed by the prescriber, he would dispense it; if not, he would refuse to dispense. The question of percentage solutions was settled, he considered, by the new B.P., according to which a percentage solution is undoubtedly x grams in 100 millilitres (1 grain in 110 minims), or x millilitres in 100 millilitres, and the specific gravity of the solvent does not come into the question. He did not therefore agree with the suggested rule on this point. He favoured the omission of suspending-agents in mixtures containing heavy insoluble powders which can usually be readily diffused, but for powders which come to the top (phenacetin, salol, etc.) a suspending-agent is desirable. It is, of course, agreed that resinous tinctures require suspension. Referring to the direction "To be used as directed" in prescribtions for morprietary articles, Mr. Gam

On the proposition of Mr. Barrett, seconded by Mr. Lloyd. the meeting expressed general agreement with the suggested code of rules, except in regard to the specific gravity of the solvent in percentage solutions.

Mauchester.—A meeting of the local Pharmaceutical Association was held at the Albien Hotel. Piccadilly, Manchester, on Docember 9. when Mr. T. Swindells gave an interesting lecture entitled A Chat about Old Manchester. Mr. Jas. Grier (President) was in the chair, but owing to another engagement had to leave early, and Mr. W. Kirkby took his place, thanking Mr. Swindells at the end of the lecture for the treat be had given his audience. Mr. W. Lane and Mr. G. A. Mallinson also spoke.

Middlesex.—A meeting of the Middlesex Pharmaceutical Association was held on December 9. A letter from the President caused considerable discussion, and it was finally left in the hands of the Chairman (Mr. Skinner) to arrange and discuss the matter with him. Certain difficulties have arisen within the Faling Association, and the matter was left in the hands of the Secretary (Mr. Wolff) to arrange

a general meeting of the district, at which it was hoped to get Mr. Woolcock to be present in order to discuss the future of the Association. The representatives of each district Association were confirmed in office until July. It was also agreed to have a closure clause in the standing orders, so that all discussion should cease at 5 P.M.

Newcastle-upon-Tyne.—Mr. J. Stanley White (Parke. Davis & Co.) delivered his lecture on vaccines and serums Davis & Co.) denvered his lecture on vaccines and serums to the Newcastle-upon-Tyne Pharmacists' Association on Wednesday evening, December 9. Messrs. H. Noble (Pre-sident), Flemming, Wright, Kerse, Gilderdale, Todd, and Turnbull joined in the discussion.

Turnbull joined in the discussion.

Paisley.—The local Pharmaceutical Association met at the George Temperance Hotel, Paisley, on Thursday, December 10, Mr. Fraser presiding, when Mr. J. S. White (of Messrs, Parke, Davis & Co., London) gave his lanternlecture on Bacteriology in Relation to Modern Therapy. Local medical men were well represented in the large audience, and Dr. Trotter (burgh medical officer of health) spoke after the lecture, thanking Mr. White for his address; and, on the motion of Mr. Robert Inglis, this was embodied in a formal resolution.

Salford.—A meeting of the Salford Pharmacists' Asso-

Salford.—A meeting of the Salford Pharmacists' Association was held at Cattle Market Hotel on December 10. the President (Mr. Gill) in the chair. Fourteen members were present. Mr. Gill drew attention to the fact that Army recruits ceased to be contributors under the National Insurance Act, and that this would affect the Drug Fund. The recruits are all good lives, and on their discharge would come into benefit again, and there is the possibility that many of these would be invalids through the hardships they have to undergo. It was agreed to send a letter to the local Insurance Committee urging them to approach to the local insurance Committee urging them to approach the Commissioners on the matter. It was also decided to forward to the Pharmaceutical Society a resolution suggesting the deletion of "Laudanum" as a synonym for tinct, opii in the new B.P., on the grounds of the safety of the public and the labour entailed in busy pharmacies by the signing of the register for small quantities of the dump. It was decided to be suggested in the same all t by the signing of the register for small quantities of the drag. It was decided to issue a list of prices for those drugs affected by the war, to serve as a guide for minimum retail charges

Society of Chemical Industry .- A meeting of the Birmingham and Midland Section was held in the University Buildings, Birmingham, on December 10. A paper was read by Dr. R. S. Morrell on The Chemical and Physical Changes which Occur during the Thickening of Oils. A discussion followed, in which Messrs. Alcock, Cotteriil, Silvester, O'Shaughnessy, and others took part.

Southport.—The monthly meeting of the Southport and District Pharmacists' and Assistants' Association was held District Pharmacists' and Assistants' Association was held on December 6, when the report of the Pharmaceutical Committee on the 1915 Drug Tariff negotiations was received. It was stated that the Committee had had to give way on the distilled-water question, and it will be necessary to use tap-water when "aqua" is ordered in Insurance dispensing under the 1915 Tariff; on the other band, it is unlikely that stock mixtures will be intreduced. It was decided to go into the questions of early closing and the adoption of a uniform price-list on the lines of that of the Liverpool Association at the next monthly meeting.

West Ham.—A meeting of this District Association of

West Ham.—A meeting of this District Association of Pharmacists was held at Forest Gate on Thursday, December 10, Mr. E. Miller presiding, when Mr. C. W. Brumwelf read a paper on Leakage in the Pharmacy, and the subject was also discussed by Messrs. Mitchell, Soper, Potter, Mays, Kirkpatrick, and Raynor. The Hon. Secretary of the West Ham Pharmaceutical Committee gave a report of a previous meeting, at which it transpired that the West Ham Insurance Committee had withdrawn approval of the West Ham Pharmacopæia, and stated that no prescription with a single title from that book would in future be paid for. It was also proposed at one meeting that no single-title prescription from the "Codex, or other such" should be dispersed, and it was recommended that pharmacists should not fill in the formula upon the prescription forms. This was carried, and notification sent to all upon the West Ham panel who were not present at the meeting.

Wolverhampton. - About fifty members of the Wolver-Wolvernampton.—About fifty members of the Wolver-hampton and District Chemists' Association assembled on the evening of December 9 to hear a very interesting lantern-lecture on "Switzerland," by Mr. E. M. Elliott. Ph.C.. Walsall. The views were taken by Mr. El. on a Continental holiday. On the motion of the President (Mr. E. E. Hall), seconded by the Secretary (Mr. J. H. Coleman), a hearty vote of thanks was awarded to the lecturer.

DURING 1913 the imports of drugs and chemicals into New Zealand of German origin were valued at 31,023*l*., as compared with 5,239*l*. in 1903.

Insurance Act Dispensing.

A Weekly Record of events and decisions concerning Chemists interests in Medical Benefit administration and practice.

ENGLAND.

Inquiry by the Commissioners.

Inquiry by the Commissioners.

Mr. J. Fischer Williams, barrister, with Dr. C. II. Milburn (Hull) and Dr. A. Fulton (Nottingham), sat at the offices of the Insurance Commissioners, Buckingham Gate, London, on December 12, as a Committee of Inquiry for the Commissioners, to hear a representation by the London Insurance Committee to the effect that the continuance on the medical panel of Dr. Edward J. Smith, Judd Street, London, W.C., would be prejudicial to the efficiency of the medical service under the Acts.

Mr. T. Mathew conducted the case for the London Insurance Committee, and the charges were that on October 22, 1913. Dr. Smith used familiar expressions and made indefensible suggestions to a female panel patient, and on March 23, 1914, refused to attend a panel patient, and on March 23, 1914, refused to attend a panel patient, who was seriously ill with pneumonia, thus imperilling the life of the patient. In regard to the first case, Mr. Mathew called the complainant and another witness, who gave evidence as to the allegations made. The employer of the panel patient in the second case was called, and deposed that Dr. Smith was sent for about 10 P.M. to attend the patient, who was seriously ill and delirious. He came about 11 P.M., but refused to see the patient, stating that he should have been sent for before 10 A.M., according to the instructions on the medical cards. He promised to call next morning, but the condition of the patient was so scrious that another doctor had to be called. The patient lutimately recovered. Dr. Smith, on oath, denied the first charge, and in regard to the second he acknowledged the facts, but stated that he followed the rules on the medical cards, that the doctor must be sent for before 10 A.M., except in cases of emergency. He did not consider this a case of emergency, as the patient had been ill for two days previously. Ile had since found that the rule as to calling the doctor before 10 A.M. did not hold. Ho had tendered an apology and had paid the account of the doctor w

Mr. J. Fischer Williams said the Committee would report to the Commissioners, who would issue their decision in due

Doctor's Appeal against Surcharge.

Doctor's Appeal against Surcharge.

An inquiry was held at the Central Labour Exchange, Sheffield, on December 10, on behalf of the Commissioners, which was in the nature of an appeal by one of the panel doctors against a surcharge of 12l. by the Insurance Committee. The Pharmaceutical Committee had asked that certain articles should be considered as extravagant and outside the scope of articles chargeable to the Drug Fund, which had been referred to the Panel Committee under Article 40 of the Regulations, who decided that they could not say that any article should be outside the drugs, etc., allowed for insured persons, but would consider and decide on the question of extravagance on the merits of each case as presented to them. Several doctors had been surcharged, but only the present appellant objected. The Clerk to the Insurance Committee opened the case by giving the particulars which led up to the surcharge.

The Chairman of the inquiry said as they were going over new ground, he thought it would be well to give their views as to the extent they would be entitled to take a rehearing. If the Panel Committee came to their decision after having heard the evidence placed before them on extravagance or excess in a judicial manner, then the Commissioners would not feel justified in upsetting the decision of a body of experts dealing with technical matters. If the Insurance Committee, after receiving the report of the Panel Committee, acting in a judicial manner, made a surcharge, acting on the Panel Committee's expert advice, the Commissioners would feel unwilling to disallow such surcharge, it would remain for the appellant, in order to establish his appeal, to prove to the Commissioners that the Panel Committee, acting in a judicial manner, made a surcharge, it would remain for the appellant, in order to establish his appeal, to prove to the Commissioners that the Panel Committee had allowed evidence to be wrongly admitted, or refused evidence to be properly given, on appellant's behalf.

Counsel for the prac

found that the Panel Committee's proceedings had been technically wrong, would it be within their province to refer it back for rehearing; if so, to what body?

The Chairman said he thought so, and it must be to

the Panel Committee.

Counsel for the practitioner then dealt with the evidence, and submitted to the Committee that the Panel Committee's

proceedings were faulty, as the evidence of the doctor was only taken by a Sub-Committee appointed by the Panel Committee, on whose report the Panel Committee decided to recommend the surcharge. He contended that the Regulations make no allowance for a Sub-Committee to act.

The Clerk to the Insurance Committee contended that the Regulations do not prohibit the appointment of a Sub-Committee to collect evidence, and that it would be unwieldy to con net the whole Committee to go into the details

wieldy to con pel the whole Committee to go into the details each inquir

The Committee made the usual announcement as to report-

ing to the Commissioners.

Reports from Local Centres.

With special reference to the supply of medicines and appliances. See also Winter Session.

appliances. See also Winter Session.

Birmingham.—The Pharmaceutical Committee met on December 14. when Mr. H. O. Lloyd was elected to the vacancy caused by the resignation of Mr. W. Shakespear, and Mr. C. Thompson to the vacancy on the Pharmaceutical Service Sub-Committee. The new list of panel chemists, etc., for 1915 shows thirteen deletions (two transfers and one non-dispensing) and seven additions (two transfers). It is intended, as soon as the prices are available, to notify chemists of the price-alterations of such of the formulæ in the local Pharmacopœia as will be affected by the new Tariff.

the local Pharmacopæia as will be affected by the new Tariff.

Blackburn.—According to a report of the Panel Committee, 160,405 prescriptions (value 5,8021.) were dispensed during the quarter ended October 11, 1914, compared with 156,616 prescriptions (value 5,0011.) for the corresponding quarter of 1913. The average cost per prescription for the nine months ended October 11, 1914, was 8,68d., against 7.66d. for the same period of 1913. The Committee expressed the opinion that on account of the large female insured population of Blackburn, and the high rate of illness existing among them, the sum allotted for the supply of drugs is inadequate to cover the cost of reasonable prescribing. They consider that thorough revision of the Drug Tariff, preferably by a central body, would be a step in the right direction towards reducing the expenditure on drugs, and that some regulation as to the prescribing of malt and oil in certified cases of tuberculosis only would also have a beneficial effect.—It was reported to the Insurance Committee on December 10 that a special conference of the Panel and Pharmaceutical Committees had been held to formulate a scheme for the checking and examination of prescriptions. A workable scheme was drawn up and approved, the cost to be borne by the Insurance, Panel, and Pharmaceutical Committees in equal proportions. It was recommended that chemists' accounts be rendered monthly, and that the Joint Checking Sub-Committee should as far as praeticable meet at monthly intervals to consider any matters relating to prescribing or prescriptions. Messrs. R. Lord Gifford and A. C. Critchley are the pharmaceutical members of the Joint Checking Sub-Committee.

Buckinghamshire.—The Insurance Committee on December 3 decided to pay to chemists 95 per cent. of the amounts

Buckinghamshire. - The Insurance Committee on December 3 decided to pay to chemists 95 per cent. of the amounts of their accounts for the quarter ended October 11, 1914. It was announced that all the chemists on the panel had signed the 1915 agreement, and that there are now on the list sixty-two chemists, compared with sixty at the beginning of 1914.

of 1914. **Dudley.**—At a meeting of the Insurance Committee on December 8 it was decided that, if it was found necessary to have the 1914 prescriptions checked, the Special Sub-Committee previously appointed to consider the question should have full power to deal with it. The Pharmaceutical Committee intimated, with regard to a proposed flat rate for emergency medicines, that they are of opinion that, since all the 1915 prescriptions are to be submitted for checking and analysis, the doctors should write their requirements on the ordinary prescription-forms, and that the accounts be rendered as usual. The matter was referred to the Panel Committee. It was reported that Mr. J. W. Cox. chemist and druggist, had withdrawn from the panel of chemists. of chemists

Gloucester.-The Insurance Committee met on Decem-Gloucester.—The Insurance Committee met on December 14, when the Medical Benefit Sub-Committee reported that the Commissioners had approved of the Draft Tariff amended by the inclusion of the stock-mixture clause. The Committee decided, on the motion of the Chairman, to rescind the resolution passed on November 16, that surcharges should be made on certain doctors, amounting to 300l. (C. & D., November 28, p. 61), on the ground that the figures supplied by the doctors as to the number of natients they had attended were inaccurate. It was decided that a special Sub-Committee to he called the Drugs and Appliances Supervision Sub-Committee, consisting of a representative from each of the three Committees, should be

formed, and shall meet at least once in every quarter to make any necessary investigations as to chemists' accounts and the quantities and value of drugs and appliances prescribed by panel practitioners.

Hampshire.—The Insurance Committee has decided to pay to chemists 90 per cent. of the amounts of their accounts for the third quarter of 1914.

London.—A meeting of the Pancl Committee was held on December 15, when the Pharmacy Sub-Committee reported further on representations by the Pharmaceutical Committee as to apparent excess in prescribing. In nine cases the Sub-Committee advised that the period covered by the complaint (April 12 to 30, 1914) was not sufficiently extensive for a decision to be reached as to excess or otherwise, in prescribing. In the remaining closure cases the extensive for a decision to be reached as to excess or otherwise in prescribing. In the remaining eleven cases the Sub-Committee found that the drugs and appliances ordered were not in excess of what was reasonably necessary. Special attention was directed by several members to a case in which this decision was reached by the Sub-Committee, although the practitioner (a member of a partnership having 7517 reasons on their little gaves 543 reasons for their little gaves. 7,517 persons on their list) gave 543 prescription-forms at a cost of 490, 14s. 5d., an average per prescription of nearly 1s. 10d. The quantity ordered was stated to be generally reasonable and the number of ingredients normal, but the high cost was attributable to a large extent to the ordering a cost of 49l. 14s. 5d., an average per prescription of nearly 1s. 10d. The quantity ordered was stated to be generally reasonable and the number of ingredients normal, but the high cost was attributable to a large extent to the ordering of rheumatism phylacogen (twelve tubes) on one occasion, at a cost of 7l., of acne vaccine on five occasions (cost 4l. 18s. 5d.); of the ordering on about thirty occasions of Kopler solution at a cost of 5l. 5s., and of Parke, Davis & Co.'s syr. coeillanæ on twenty-eight occasions at a cost of 1l. 11s. 6d. Dr. Denning described the conclusion of the Sub-Committee as a very extraordinary one. He saw a good many cases of rheumatism and acne, and if he treated them all in this manner the Drug Fund would be in a bad way. Dr. Hogarth (the Chairman of the Pharmacy Sub-Committee) said the doctor concerned practically justified all these prescriptions. The Chairman of the Committee (Dr. Cardale) said the explanation in the case of phylacogen was that the man had been ill for months and months, and had been cured by this treatment. It was a case of chronic rheumatoid arthritis. Dr. Richards thought that at least the case should be classified among those as to which the Committee was not satisfied whether or not there had been excessive prescribing. In his opinion, the practitioner did not by any means justify the cost or indicate any desire to do differently in the future. If this was not excessive prescribing, how was the Committee to say that any practitioner prescribed in excess? Dr. Denning said this was a most shameful case, and he moved that it be described as one of excessive prescribing. On the suggestion of the Chairman, however, the case was referred back to the Pharmacy Sub-Committee for further consideration. In another case the report of the Sub-Committee contained the statement that, "with regard to the supply of ung, hamamelidis 2 oz., the practitioner produced duplicate prescriptions to support his statement that only 1 oz. had been ordered on each occasion, and that the

No. of Prescriptions Amount of accounts Average cost as allowed per prescription 4340,348 £12.500 17 as allowed per prescription \$12,509 17 9 8.8d. \$12,004 9 2 8.7d. August, 1914 ... September, 1914 ... 331,938

The total surcharge in the case of eighteen doctors was 1151. 10s. 9d. for April 12 to 30 inclusive; also that the 1915 Tariff as agreed upon by the Pharmaceutical, Panel, and Insurance Committees has been approved by the Commissioners; that he had written to the Insurance Commissioners urging that provision should be made in any revision of the Regulations for dealing with complaints made by chemists against doctors; and the list of business-

hours of chemists had been forwarded to the Insurance Committee for inclusion in the panel list for 1915. The Secretary was instructed to write to the Panel and Insur-Committees, calling their attention to this Committee's ance Committees, calling their attention to this Committee's resolution as to marking urgent prescriptions with the letter "U," and that the doctors and chemists on the panel should be acquainted with the arrangement. Information was received that each chemist on the panel would in due course be supplied with a leaflet setting forth the agreed prices of the unpriced items in the 1915 Tariff. At a joint conference of the Panel, Pharmaceutical, and Insurance Committees it was decided to continue the present system of examination of prescriptions for excessive prescribing, and reports made thereon from time to time. A complaint was received against a panel chemist about the way he advertises in a circular, and the Committee objected to the advertising. (See also p. 62.)

Middlesex.—The Pharmaceutical Committee met on

the advertising. (See also p. 62.)

Mid1lesex.—The Pharmaceutical Committee met on December 9, when the question of "Rep. mist." was considered. It was announced that the Leeds Insurance Committee had refused to pay for such prescriptions, and it was decided to press a resolution that after a date to be fixed "Rep. mist." prescriptions should not be paid for in the county. The report of the pharmacists on the Checking Sub-Committee was received, and in the course of the discussion it was stated that, while the average cost of prescriptions had been reduced by 1d., the figure is still too high if discounting is to be avoided, and that doctors still fail to use the special forms when ordering large quantities of supplies. The possibility of getting the Insurance Committee to issue a circular stating the limitations as to the ordering of drugs for the guidance of doctors and chemists was discussed, and the representatives on the Checking Sub-Committee were instructed to press that it is contrary to the spirit of free choice of chemist for any doctor to supply prescriptions to the insured either with the card of a parthe spirit of free choice of chemist for any doctor to supply prescriptions to the insured either with the card of a particular chemist or in cuvelopes supplied by a chemist, when the matter comes up for discussion by the Sub-Committee.— At the meeting of the Insurance Committee on the same day, the Chairman (Mr. W. S. Glyn-Jones, M.P.) reported that in the case of five panel doctors, who had prescribed excessively, the surcharges to be paid by them would be credited to the Drug Fund.

wortnumberland.—The Insurance Committee has decided, on the recommendation of the Finance Sub-Committee, to apply to the Commissioners for a grant of 2,000*l*. for the Drug Fund.

Plymouth.—Mr. R. F. Roper, Ph.C., has been appointed representative of the County Borough Council for Plymouth, Devorport, and Stonehouse on the Insurance Committee; and Mr. A. J. Ancliffe, chemist and druggist, has been appointed to the same Committee by the Commissioners. The Scrutiny Committee met on December 14 to decide upon working arrangements for local checking, analysis, and scrutiny of prescriptions; but as it was found that the Panel Committee had not taken a vote on the question of administrative expenses, the meeting was adjourned until carly in 1915. adjourned until carly in 1915.

adjourned until early in 1915.

Sheffield.—The Pharmaccutical Committee met on December 9, when the Secretary reported that the money available for the 1913 Drug Fund amounted to 14,685l. 9s. 4d., equal to a total payment of 18s. 0.25d. in the pound. The Sub-Committee dealing with the accounts reported that they had referred several accounts for emergency dispensing to the Panel Committee, who had been unable to recommend a surcharge, and that an application for the return of 5l. 3s. 3d. paid to a drug-vendor for dispensing medicines was successful. It was intimated that a Sub-Committee of the Panel and Insurance Committees has decided on eight mixtures under the stockmixture clause, and the Committee resolved to oppose the proposed addition of a ninth mixture to the list, on the mixture clause, and the Committee resolved to oppose the proposed addition of a ninth mixture to the list, on the ground that as it contains hydrocyanic acid it is unstable. It was decided to support the Panel Committee in their protest against the credits allowed by the Commissioners (C. & D., December 12, p. 59). The Committee decided to agree to the renewal of the fee, 1s. 6d., allowed to doctors for emergency dispensing for 1915. It was agreed to ask for an emulsion-fee on lin. terebinth., and to ask the Insurance Committee to alter the note on the copying of prescriptions in the Tariff issued to chemists to the following: following:

Prescriptions.—No fee to be charged for the copying of prescriptions, except when single copies only are supplied, and in cases where a prescription cannot be dispensed at sight a search-fee of 1d. is to be charged.

Worcestershire.—The Pharmaceutical Committee tested against the decision of the Insurance Committee that distilled water should not be used in dispensing, unless prescribed by the doctor (C. & D.. November 14, p. 46); but the Insurance Committee has decided to adhere to the decision. Yorkshire.—The North Riding Insurance Committee on December 12 approved of the amended Drug Tariff, and resolved to submit it to the Commissioners for approval. It was decided that chemists who had been surcharged for items regarded as excessive should be asked to claim for such surcharges in their next accounts. A statement as to the Drug Fund was submitted, showing a balance of 535l. (equal to 25 per cent. of the accounts) due to chemists, and this was ordered to be paid. The Chairman of the Mecidal Benefit Sub-Committee stated that in future all cases of excessive prescribing that are reported will come before the Panel Committee. The Pharmaceutical Service Sub-Committee reported that there had been no complaints against chemists.

Notes.

War Prices.—A meeting of representatives of the British Medical Association and of the Pharmaceutical Society of Great Britain was held in London on Wednesday, December 16, to fix the January 1915 prices of items in the Drug Tailff which are not priced.

Sailors and Soldiers.—The Commissioners have issued a Sallors and Soldiers.—The Commissioners have issued a circular as to the medical treatment during the war of insured persons who belong to the Forces. It states that such persons are regarded as serving sailors or soldiers from the moment they are enlisted until discharge. During this period they are not entitled to benefits under the Insurance Acts, and no liability for their treatment rests on the panel practitioners by whom they have been accepted. A member of the Forces who applies for treatment to a panel practitioner or to an Insurance Committee should be dealt with as follows: dealt with as follows:
(a) A member of the Naval Reserves should be referred

(a) A member of the Naval Reserves should be referred to the naval surgeon and agent, and, in the absence of these in the district, should be directed to make his own arrangements for treatment, and will receive sick allowance on making application through his commanding

(b) A member of the Army Reserve, Territorial Force, or new Army on furlough should be referred to the officer commanding the nearest military station, who will comcommanding the nearest military station, who will communicate with the assistant director of medical services of the area in which the soldier is temporarily residing. In case of emergency, the soldier may apply to a civil practitioner, to whom he will show his furlough-paper, and who will be allowed to charge for attendance under Army Regulations, provided that the soldier immediately reports to the officer commanding the nearest military station, as directed above.

directed above.

Upon discharge, or upon disembodiment of the Reserve or Territorial Forces the insured person will again become entitled to Medical Benefit as though he had newly entered

London Chamber of Commerce.

Chemical-trade Section.

THE annual meeting of this Section was held in the Chamber's offices, London, on Thesday afternoon Chamber's offices, London, on Tuesday afternoon, December 15, the Chairman (Mr. John C. Umney, F.C.S.) There were also present: presiding.

presiding. There were also present:

Messrs. K. C. Allen (Stafford Allen & Sons, Ltd.), H. G. Barker (Corbyn, Staeey & Co., Ltd.), E. J. Boake (Boake, Roberts & Co., Ltd.), E. F. Harrison, J. H. Heap (British Mining and Metal Co.), H. Finnes Johnson (Borax Consolidated, Ltd.), H. Latimer (Indo-Burma Co.), F. W. Lewis (Boake, Roberts & Co.), Hugo Lorenz, A. Macdonald (J. F. Macfarlan & Co.), Peter MacEwan, E. Pickering (F. Newbery & Sons, Ltd.), F. A. Thatcher (Atlas Preservative Co., Ltd.), H. Ayscough Thompson (Willows, Francis, Butler & Thompson, Ltd.), W. T. Treadaway (F. A. Faulding & Co.), T. Tyrer (T. Tyrer & Co., Ltd.), F. A. Waugh (Blagden, Waugh & Co.), Paul Thomas White (Alfred White & Sons), and the Secretary (Mr. Charles Musgrave).

DIVISION OF THE SECTION.

At a previous meeting it was resolved that in view of the composite membership of the Chemical Section it would be desirable that sub-sections be formed as follows:

(a) Chemical-manufacturers and chemical-brokers.
(b) Drug and pharmacy
(c) Analytical and consulting chemists.

A Sub-Committee was appointed to determine as to the membership of the various sub-sections, and it was now proposed to elect Chairmen for the three sub-sections. During the discussion which ensued Mr. E. J. Boake said that the term "chemical-manufacturer" should be more

clearly defined, and that the word "British" should be incorporated before "chemical manufacturers" to distinguish them from foreign firms. It was not satisfactory that chemical-brokers should be present at the meetings of chemical-manufacturers if they are to be included in the same sub-section. They as manufacturers were in competition with foreign firms, and chemical-brokers acted as agents for such. Some of the meetings held were private, and questions were raised and discussed which could not otherwise be done. Mr. Boake suggested that a section of chemical-brokers should be formed as distinct from that of chemical-manufacturers. The Chairman said there was no objection to a fourth sub-section, and the Secretary explained the position of the Chamber in regard to the rights of members so far as the sections are concerned. After further discussion, during which Mr. Tyrer said he agreed with a fourth section being formed, it was decided that the matter should be re-considered by the Sub-Committee and brought up again for confirmation, Mr. Boake's name being added.

ELECTION OF CHAIRMAN.

Mr. Tyrer proposed that Mr. Umney should continue his chairmanship of the Chemical-trade Section for another year, so that he should complete the work of the subdivision and see the thing through. Mr. Umney agreed, and in referring to the recent work of the Chamber alluded to the special circulars dealing with the difficult problems of the last four months, which had been highly appreciated. In connection with the additional work and expense involved, the Chamber would be grateful for any donations to its funds. Reference was next made to the work of the Special Emergency Committee which had dealt with contraband of war and the issue of permits. On the whole the arrangements, with few exceptions, had worked very favourably, and they had been allowed to ship a fair amount of articles to destinations agreed upon. If any instances arose where the arrangement with regard to permits was not satisfactory, they should be reported to the Secretary of the Chamber, and they would be dealt with by the Emergency Committee, which was re-appointed.

STANDARD TESTS FOR CHINESE OILS,

The Chairman said that the Far Eastern Section of the Chamber had received a request from the Association of Exporters and Dealers of Hong-Kong asking if it was possible for a standard test to be laid down for Chinese wood oil in view of the fact of the many arbitrations and extravagant allowances made in the Port of London. The Chairman suggested that Mr. E. F. Harrison should take charge of the matter, and the names of Mr. A. C. Chapman and Dr. T. A. Henry (Imperial Institute) were added. Another matter from the Far Eastern Section was the guaranteed free from resin clause in contracts for cassia oil, in regard to which the Chairman reported that that Section had instructed him to prepare a letter to the Association of Exporters and Dealers in Hong-Kong that cassia oil containing resin cannot be imported into the United States, and that they should either mark it "from Hong-Kong—the highest grade possible" or 80 to 95 per cent., as the case may be

Since the above meeting was held, we learn that Mr. Umney has received a letter from Mr. Frank Browne, head of the Government Laboratory, Hong-Kong, informing him of an important development in regard to the export of anise oil and cassia oils. The Chinese Government has requested the Government Laboratory to undertake the analysis and certification of all anise oil and cassia oil exported from Hong-Kong. This work has commenced, and from February 1. 1915, every package of these oils exported will bear the Government seal, while the Government certificate of analysis will also accompany every pareel exported. In the case of anise oil, the congealing and melting points, percentage of anethol, the optical rotation, refractive index specific gravity, and solubility in 90-percent. alcohol will be determined and certified; while in the case of oil of cassia the percentages of cinnamic aldehyde, resin, and lead, the optical rotation, refractive index, specific gravity, and solubility in 70-per-cent. alcohol will be determined and certified. Mr. Umney is co-operating with Mr. Browne in the reform, which, we have no doubt, will be welcomed by dealers and users on this side.

TRADE REPORT.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

42 Cannon Street, E.C., December 17, 6.30 p.m.

BUSINESS in the chemical and drug markets now shows signs of less activity, and next week there will be still less to report. A summary of the principal features of the week include a further advance in codliver oil on a much improved demand in Norway and the uncertain outlook regarding the winter fishing. Ammonium carbonate has advanced by 10 per cent., and the sulphate is also dearer. English castor oil is 10s. per ton higher. Shellac, turpentine, rosms, copper sulphate, and Chinese vermilion are all in sellers' favour. Japanese mint and star-anise oils have also improved, with a fair demand. Lemon, bergamot, and otto of rose are cheaper. Persian opium is on the easier side, as are peppers, hydrastis, and linseed oil. Rio and Cartagena ipecacuanha has been sold at the higher prices recently asked. The chief movements have been as under:

Higher	Firmer	Easier	Lower
Animon. carb. Ammonia sulphate Castor oil (Eng.) Coca-leaves (Amst. auction) Cod-liver oil Rosins Shellae Turpentine Vermilion	Anise oil (star) (e.i.f.) Copper sulphate Mint oil (Jap.) Palm oil Senega Soya oil	Hydrastis Linseed oil Opium (Persian) Tartarie acid Peppers	Bergamot oil Citronella oil (Ceylon) Lemon oil Otto of rose Saccharin Sulphur

Cablegram.

New York, December 16.—Business in drugs is moderate. Opium is 20c. per lb. lower at \$8.90 for druggists' in single cases. Peppermint oil in tins is steady at \$1.35. Menthol has advanced 5c. to \$2.50, and Cartagena ipecacuanha is also higher at \$1.85. Belladonna-leaves have advanced to \$1.50 per lb. Copaiba balsam is easier at 36c. per lb.

London Markets.

ALCOHOL.—It has been decided that the price of British rectified spirit is to remain unchanged for the next six months (January-June).

ALOES.—The exports from the Union of South Africa during September amounted to 70,091 lb. (437l.), against 69,372 lb. (806l.) in 1913. The nine months (January-September) exports were 708,863 lb. (7,484l.), against 463,342 lb. (5,339l.) in 1913.

AMMON. CARB.—The discount of 10 per cent, having been abolished, prices are dearer to that extent. Lump is now 3_4^3d , and powdered 4d, per lb, net

AMMON. CHLORIDE. Large crystals are quoted at 40s. and granulated at 30s. per cwt.

Ammon. Sulphate is 5s. to 10s. per ton higher, at 11l. for London, Hull 11l. 5s., Leith Jll. 10s., Liverpool 11l. 7s. 6d. to 11l. 10s.—all prompt, less 3½ per cent.

Anise Oil (Star) is firmer, with sales of "Red Ship" brand at up to 3s. 9d. per lb. c i.f., for January-February shipment.

Arsenic is steady, at from 13l. to 19l. per ton for best English white powder in barrels and kegs respectively.

Balsams.—Genuine Copaiba is quoted 1s. $7\frac{1}{2}d$. per lb. net; Tolu. 1s. 10d. to 1s. $10\frac{1}{2}d$. per lb.; and Pcru, which is scarce, at from 7s. to 8s. per lb. Some of the latter is now being landed.

BERGAMOT OIL is easier, at from 11s. 9d. to 12s. per lb. c.i.f. for immediate shipment of well-known brands; spot values are from 14s. to 15s. A Sicilian advice, dated December 5, states that the firmness of growers continues to be kindled by holders of old-crop oil, who are spreading reports about the possibility of the Government intervening in some way, in order to help them out of what they call a "crisis." The market is consequently firm and sensitive. Cascara Sagrada meets with a little inquiry at from 36s.

to 40s. per cwt. on the spot, according to age.

Cashew Nurs.—At auction 22 cases were bought in at 40s.

Castor Oil.—English make is 10s, per ton dearer at 26l. in barrels for prompt to June 1915 delivery, delivered free on wharf, London. Finest medicinal quality is 50s, per ton over the price of first pressing, and oil in tins and cases 50s. per ton over the respective price in barrels. It Liverpool good seconds Calcutta is quoted at $5\frac{1}{2}d$. per lb.

Liverpool good seconds Calcutta is quoted at $5\frac{1}{2}d$. per lb. Cinchona.—At the Amsterdam tender, held on December 11, the equivalent of 39,163 kilos, quinine sulphate were taken up by the quinine-manufacturers out of 68,164 kilos, brought forward for distribution. The average unit was 6,20c, per balf-kilo,, being unaltered. At the London auction on Tuesday 206 packages East Indian offered, of which 125 sold at the previous unit of $1\frac{1}{4}d$. per lb. The following prices were paid: Officinalis, good stout mossy quills, 6d: natural quilly chips, $4\frac{1}{2}d$: stem chips, $5\frac{1}{4}d$; and root, 4d. per lb. Succirubra root, $2\frac{\pi}{8}d$. per lb. chips, per lb.

CLOVES.—Quiet, at 71d. spot for fair Zanzibar: at auction 20 cases Penang were bought in at 1s. 3d. for good.

C'OCA-LEAVES.—At the Amsterdam auction, held on December 11, the equivalent of 574 kilos. alkaloids sold at the average unit of 15.77c., compared with 14.13c. at the November auction.

Cocaine.—A good inquiry is reported on export account, but permits are difficult to get; 7s. per oz. nct is quoied.

COD-LIVER OIL shows a further substantial advance. Last Friday it was 88s., and subsequently 90s. to 91s. per barrel c.i.f. was quoted for leading brands; to-day one agent is asking 100s. nominally. The advance appears to be due to the uncertain outlook regarding the new fishing, and to the fact that the price of oil used for industrial purposes has advanced considerably

Our Bergen correspondent writes on December 7 that we have had continually rising prices for industrial oils during the last two months, and now it looks as if the medicinal oils will also take the same direction. Last week the prices for unrefined as well as for refined oil suddenly advanced from 10s. to 15s. per barrel. The future will show if these prices can be maintained by speculation or not. To-day's quotation for prime noncongealing oil is 87s. 6d. per barrel c.i.f. terms (since advanced). advanced).

COPPER SULPHATE has advanced a further 10s. per tonto 211. for the usual Liverpool brands.

Cream of Tartar remains unaltered at 150s, per cwt. for 98-per-cent. powdered. American make is now being offered on this market.

ERGOT.—We note the arrival of 19 bags from Archangel and 40 bags from Spain. The latter is quoted at 2s. 5d. to 2s. 6d. per lb. spot and 2s. 4d. f.o.b.

GINGER.—Quiet. At auction 213 bags Calicut offered, and 45 sold without reserve at 18s. 6d. for small washed D rough; fair washed Cochin was bought in at 24s.

IPECACUANHA.—Simall sales of Matto Grosso have been made at 15s. per lb. and Cartagena at 9s. 6d.

Kola.—At the spice-auction four barrels dried sold at from $1\frac{1}{2}d$. to $1\frac{3}{4}d$. per lb.

from $1\frac{1}{2}d$. to $1\frac{3}{4}d$. per lb.

LEMON OIL.—New crop for January-March shipment is quoted at from 3s. 2d. to 3s. 5d. per lb. c.i.f., according to shipper. A Sicilian advice, dated December 5, states that business continues slack, although occasionally more orders have come in (especially from America), prices being considered low from a consumer's point of view, and without much margin for further recession. Naturally, the general conditions of trade all over the world helps to maintain the general depression for lemon oil both in Sicily and abroad, and it is very difficult to make forecasts, many of the factors of the situation being quite abnormal.

MACE.—At auction 141 packages sold, with fair competi-

Mace.—At auction 141 packages sold, with fair competition, at steady rates for good qualities, but mixed red descriptions were cheaper.

Menthol.—Quiet at from 11s. to 11s. 3d. for Kobayashi and 10s. 6d. to 10s. 9d. for Suzuki on the spot; there are buyers of January-February shipment at 10s. 9d. c.i.f. in combination with oil. This price was paid to-day for Suzuki

MINT Oil.—In Japanese dementholised a good business has been done at from 3s. 4d. to 3s. 5d. per lb. for Suzuki and Kobuyashi respectively, at which prices there were

further buyers on Wednesday, sellers asking 3s. 6d.; for January-February shipment 2s. 10d. to 2s. 11d. c.i.f. has been paid for Kobayashi, at which price there are further

Nutmegs.—At auction the large supply of 544 packages

West Indian all sold at steady rates for sound, but defective were $\frac{1}{4}d$. to $\frac{1}{2}d$. per lb. cheaper.

Oils (Fixed) — Coconut is firm, at 50s. for Ceylon and 60s. OILS (FIXED)—Coconut is firm, at 50s. for Ceylon and 60s. for Cochin on spot. Linseed is quiet and easier, at 21s. 10½d. in pipes and 22s. 1½d. in barrels. Rape is barely steady, at 31s. to 31s. 6d. naked for ordinary brown crude on spot and at 34s. 6d. for British refined in barrels. Cottonseed rather firmer, at 25s. 6d. for crude on spot in pipes, 27s. 3d. for pale refined in pipes, 30s. for sweet refined, and 30s. net ex wharf for American p.s.y. Palm is dearer at 29s. 10½d. per cwt. in Liverpool.

OPIUM.—As the year closes less interest is being shown, but the market for Turkish remains strong at 27s. 6d. per lb. spot for 11-per-cent.: fair quality soft shipping has been sold at 30s.; Persian is quoted at from 16s. to 22s., as to test. The already ample spot stock of the latter will be augmented by a further 380 cases, per Albistan, from the Persian Gulf, due on December 25.

Orange Oil.—Sieilian sweet meets with a slow sale at from 6s. to 6s. 6d. c.i.f. A Sicilian advice, dated December 5, states that the lack of demand has led to a continuance of the weak situation, and it is possible to obtain a slight reduction on previous prices.

Otto of Rose is cheaper, at from 30s, to 33s. per English oz, for "guaranteed pure on analytical certificate," and at from 47s. 6d. to 50s. for "guaranteed own distillation." Peppermint Oil.—American tin oil is somewhat scarce on the specific terms.

the spot, but parcels are now landing; values are from 6s. 9d. to 7s. per lb. net. H.G.H. is still 12s. 6d London

-The Saccharin Corporation have reduced their price to what it was previous to the war-viz., 25s. per lb. for 550 strength. Although there is still a scarcity, the position as regards delivery has eased.

SENEGA is firmer in the United States, and on the spot

1s. 10d. net is quoted.

SENNA.—The Clan Macbeth, from Tuticorin, has brought 380 bales Tinnevelly, which will probably be offered at the first drug-auctions of the New Year.

SHILLAC.—The spot price has advanced from 2s. to 3s. per cwt., fair TN Orange selling on a basis of 63s, to 64s. Higher prices have been cabled from Calcutta, 65s. e.i.f. being asked for TN Orange for December-January shipment, and 64s. c.i.f. for AC Garnet. Futures are firm.

Tartaric Acid rather on the easier side, owing to arrivals now landing; 1s. 6d. is quoted for prompt delivery.

Tragacantil.—The Albistan, due on December 25, brings

TRIGACANTH.—The Albistan, due on December 25, brings about 100 packages Baghdad and 80 packages Persian. Prices for tragacanth are likely to be dear for a considerable period—at least, until regular fixed sailings are arranged with the Persian Gulf ports.

TURPENTINE has advanced about 1s. 3d per cwt. on the week, closing at 34s, $7\frac{1}{2}d$. for American and 35s. $1\frac{1}{2}d$. for

January-April.

Vermilion.—The price of English is now 3s. per lb., being higher than our previous quotation. Chinese is also dearer.

Wax, Bees'.—Sales of Jamaica are reported at 81, 12s. 6d. for dark up to 9l. for good red. East African is quoted 7l. to 7l. 5s., bleached Calcutta 8l. 12s. 6d. to 8l. 15s., and unbleached 6l 15s. to 7l. per cwt.

Wax, Japanese, is steady, with sales of December-January shipment at 45s. 6d. per cwt. e.i.f.

Senna Exports Prohibited.

A telegram has been received by the India Office in London stating that the Indian Government has prohibited London stating that the Indian Government has prohibited the exportation of senna, but no explanation is given, and the receipt of official mail advices must be awaited. Several theories are current as to this strange step: one is the probable imposition of a fiscal tax, and another that the authorities wish to control the destination of exports. Meanwhile, the recent arrivals from Tuticorin will not come to auction until the next drug-sale in January 1915.

No Cyanide Shortage.

Presiding at the annual meeting of the Cassel Cyanide Co.. Ltd.; of Glasyow, the Chairman said that since the outbreak of war all departments had been working at high pressure. Their manufacturing and financial resources had enabled them to overtake an important shortage of eyanide on the Rand. occasioned by the cessation of shipments from Germanv. Failure on their part to do so would have meant a curtailment of mining operations in South Africa and

a serious decrease in the amount of gold available for the Bank of England, and consequently for the prosecution of the war. While many industries were suffering at this time through lack of products of which Germany had a monopoly, it was satisfactory to know that there was more than enough cyanide being manufactured in the United Kingdom to-day to meet legitimate demands within the British Empire. It would be realised that the situation called for extensions to machinery and plant, and obligations in connection with supplies of raw material. These liabilities necessitated a temporary advance in the price of cyanide and protection of consumers against a sudden termination of the war. Contracts had therefore been entered into for some time ahead with the more important buyers on terms satisfactory both to them and to the company.

some time ahead with the more important buyers on terms satisfactory both to them and to the company.

From another source we understand that the Cassel Cyanide Co. is to keep the mines in the Cobalt district of Ontario supplied with cyanide for the next two years at 18e. per lb. for 1915 and 16c. per lb. for 1916. It appears that the British Government asked the company to sell no cyanide outside the British Empire until the gold and then tho silver mines within the Empire had been supplied. Following this, the company sent a special representative into Northern Ontario to confer with all the mine managements. Previous to the war the Cassel Co. supplied 40 per cent, of the cyanide consumed in South Africa, the remainder being German cyanide.

being German cyanide.

Heavy Chemicals.

There is every indication that with the waning year there will be a diminished inquiry for heavy chemicals, in the production of which Lancashire is one of the principal centres. At present, however, such is the improvement in dyeing and textile branches of industry that buyers are inclined to anticipate future wants, caused, no doubt, by the expected "boom" in the home trade. An important item to be noted is the suggestion that cotton khaki overalls for the Army should give some relief to the woellenindustry, as well as an immense impulse to this particular class of trade. This matter has been received with enthusiasm throughout Lancashire. Meantime, more chemical contracts are being made on homo account, and demand for export is good. White powdered arsenic is in better demand at from 181, 10s. to 191, per ton delivered Manchester. There is no change to note in glycerin; dynamito is quoted 911, to 921, per ton, naked, f.o.b. Sulphate of copper is firmer at 211, 5s. to 211, 10s. delivered Manchester, with 10s. to 15s. more asked for forward delivery. Coal-tar products continue exceedingly firm; solvent naphtha is brisk at 11d. to 11½d. per gal. Carbolic acid and benzols are unchanged. Sulphate of ammonia is quoted at 10l, 17s. 6d. to 11l., on rail, Manchester. rail, Manchester.

American Drug-market.

Except in a few lines of seasonable goods, the drug-market has been rather quiet within the month, with further reductions in prices, inspired by increasing competition. Most important among the price changes were the wholly unexpected sharp reductions in morphine and codeine in the face of a rising market for opium; also in quinine salts, which hitherto had been deemed too low, in view of the greatly increased European consumption and the difficulties in obtaining einchona-bark.

which hitherto had been deemed too low, in view of the greatly increased European consumption and the difficulties in obtaining cinchona-bark.

Codeine.—An active buying movement is now well under way. Manufacturers continue to quote on a basis of \$6.50. Copaba is 1c. per lb. easier for both South American and Para. Demand has fallen off, and spot stocks have accumulated; prices are 36c and 35c. per lb. respectively.

Guarana is in much larger supply in first hands, and the market is weak. Whole is quoted at from \$1.10 to \$1.15, and powdered \$1.25 to \$1.30.

Hydrastis.—Despite reports of scarcity in the West, local holders have found their spot stocks sufficient to meet all current requirements and to admit of the accumulation of a small surplus, which in former years would have been shipped to Europe. They are now offering at \$4.30 and \$4.35 for whole and \$4.55 and \$4.60 for powdered.

Menthol.—A fairly active demand is reported, and spot stocks have been further reduced. The quotation in caselots is \$2.40 per lb.

Peppermint Oil (American).—Further concessions of 10c. and 15c. have been made, as supplies have been augmented heavily by the new-crop goods without being reduced as usual by European takings. Revised quotations are \$1.40 and \$1.50 for oil in tins.

Sarsaparilla.—As the bulk of the stocks of Mexican root are now being shipped to the United States instead of abroad as formerly, local holders have become still easier, and in some cases are offering comparatively large lots as low as 10c., though generally holding out for 12c. Honduras, however, is still commanding 48c. to 50c.

The Week's Arrivals.

During the period December 9 to 16 inclusive the following chemicals, drugs, and allied produce have arrived at the principal English ports. Goods in tr. are not included. Where not stated, the figures denote packages:

Acctate of lime (Sweden) 270
Acctate of lime (Sweden) 270
Acctic acid (Rotterdam) blus.
56, cks. 52, cbys. 146, (New
York) brls. 163, (Gothenburg)
drms. 160

Total Calcutto (Sweden) 270

Honey (Rotterdam) cks. 20,
(N. Zenland) cs. 66, (New
York) 70

Total Calcutto (Sweden) 270

Acctate of lime (Sweden) 270

Indigo (Bombay) cs. 38, (New York) 22. (Calcutto) 127 Acetylsalicylic acid (Rotter-

Acetylsalicylic acid (Rotter-dam) cs. 10 Albumen (Havre) cs. 4 Aniline dyes, colours, etc. (Rotterdam) 92, (Genoa) 1,058 Anise oil, star (Hong Kong) 30 Albumen egg (Hong Hong) cs.

Alcohol wood (Newport News) dms. 20

Aloes (New York) bxs. 25 Ammon, nit. (Skien) cks. 371 Antimony (Marseilles) 245, (Shanghai) 709 Antimony ore (Singapore) bgs. 8 118

8.118 Argol (Oporto) 15, (Palermo)

Arrowroot (Trinidad) 483 Arsenic (Portugal) eks. 25 Balsam (Puerto Colombia) es.

Barium chloride (Marseilles) cks. 8 Caiupnt oil (Amsterdam) crts.

Calamus root (Rotterdam) 16 Caleium carbide (Norway) dms. 4,265

(Spain) 450 (Holland) Canary-seed

Caraway-seed (Holland) 375 Carbon tetrachlor. (France) 52 Cardamoms (Ceylon) 76 Cashew nuts (India) 70

Cardamons (Ceylon) 76
Cashew nnts (India) 70
Castorum (St. John's, N.F.)
pkgs. 20
Chemical products (Treport) cs.
21, (Rotterdam) dms. 109
Cinchona (Calicut) 117, (Tuticorin) cs. 20
Cinnamon elaf oil (Galle) cs. 4
Cinnamon elaf oil (Galle) cs. 4
Cinnamon elaf oil (Galle) cs. 4
Citric acid (Marseilles) cs. 14
Citric acid (Marseilles) cs. 130
Citronella oil (Ceylon) dms. 6,
(Galle) dms. 40
Cloves (Marseilles) 745
Cochincal (Colon) 29, (Marseilles) 8, (Teneriffe) 8
Cocoa butter (Amsterdam) 98
Cod-liver oil (Aalcsund) 240
Cream of tartar (Marseilles)
cks. 318, (New York) cks. 40,
(Bordeaux) cks. 123, (Palermo) cks. 20, (Patras) brls. 44
Croton-seed (Ceylon) 41
Dextrin (Holland) 60, (New York) 200
Drugs (Boston) cs. 16
Ergot (Snain) bgs. 40, (Archangel) 19
Essential oils (Messina) pkgs. 460, (Catania) cs. 14, (New York) cs. 13
Eucalyptus oil (Australia) 200
Farina (Holland) 8,874
Fennel-seed (Patras) 338
Formaldehyde (New York) brs. 259
Formio acid (Rotterdam) cs. 660 abre 70

259
Formio acid (Rotterdam) cs. 60. cbys. 79. cks. 10. blns. 76
Gallio acid (Genoa) cks. 12
Gentian (Marseilles) 22
Geranium oil (Marseilles) cs. 16
Ginger (Hong Kong) pkgs. 2-919
Glucose (Holland) 60, (New York) 60

Glycerophosphates (Havre) cs. 14 Glycerophosphates (New York) cs. 245

um acacia (Bombay) 17, (Havre) bgs. 60, (Marscilles)

278
Gum copal (Singapore) 277,
(Holland) 14
Gum damar (Singapore) 28,
(Holland) 50
Gum kanri (Auckland) cs. 1,755,
bgs. 84
Gums unenum. (Rotterdam) cs.
25, bls. 39, bgs. 197, (Havre)
bls. 540

(N. Zealand) es. 66, (New York) 70

Indigo (Bombay) es. 38, (New York) 22, (Caleutta) 127
Insect-flowers (Marseilles) 5
Juniper berries (Italy) 200

Lavender-flowers (Spain) 161

Lemongrass oil (Cochin) es. 70

Lime-juice (Trinidad) pns. 14, hds. 49, eks. 115

Lime oil (Trinidad) pns. 14, hds. 49, eks. 115

Lime oil (Trinidad) eks. 2, dmus. 4, es. 25

Liquorice-juice (Marseilles) es. 197, (Catania) es. 106

Liquorice-root (Catania) 15, (Marseilles) 76

Lithopone (Valencia) 10, (Holland) 180

Magnes. chlor. (Rotterdam) brls. 12

Magnesite (Drammen) 508, (Madras) bgs. 3,000

Manna (Palermo) es. 7

Menthol (New York) es. 10, (Havre) 10

Mikls-sugar (Amsterdam) 44

Mineral-waters (France) es. 3,286, (Spain) 100

Mineral white (Bordeaux) 800, (Rotterdam) 80

Nut oil (Holland) 381

Nux vomica (Cochin) 73

Olive oil (Lezhorn) pns. 63, 2 eks. 10, (Corfu) brls. 137. (Marseilles) es. 1,110, brls. 774

eks. 50, (Bordeaux) es. 520, (Patras) brls. 506

Opium (Caleutta) es. 50, (Patras) 58

Opium (Calcutta) es. 50, (Patras) 58

ras) 58
Orange-peel (Havre) 10
Orchella-weed (Lisbon) 30
Orris (Leghorn) 201
Otto of rose (Marseilles) cs. 8
Papain (Ceylon) cs. 4
Peopermint oil (New York) cs. 40

40 Perfumery (Marseilles) es. 89, (Treport) es. 52, (Bordeaux) 15, (Rotterdam) es. 16

Petrolatum (New York) brls. 40 Potash carb. (Rotterdam) 18 Potash canstic (Aarluns) dms. 128, (Gothenburg) dms. 180 Potash lye (Rotterdam) dms. 25 Potash metabisulphite (Marseilles) eks. 50

scilles) cks. 60
Potash permang. (Gothenburg)
20, (New York) 12
Potash prussiate (Marseilles)
cks. 12
Potash salts (Rotterdam) cks.
218

218 Quinine (Amsterdam) cs. 1°5 Roots, herbs, barks, etc. (Mar-scilles) 164, (New York) 38 Rosc oil (Bombay) pots 4 Saccharin (Rotterdam) kgs. 11,

Saccharin (Rotterdam) kgs. 11, cks. 2
Saffron (Valencia) cs. 7
Salicylic acid (New York) 8, (Copenhagen) 6
Seedlac (Calcutta) 50
Senna (Tuticorin) bls. 380, (Marseilles) 10
Shell and button lae (Calcutta) 273

Saeri and bitton fae (Caleutta)
273
Sodium aectate (Rouen) 11
Sodium ellorate (Genoa) es. 50
Sodium nitrate (Taltal) bgs.
30,874 (naval prize)
Sov (Hong Kone) eks. 150
Spices (Trinidad) 139
Sulphur (Sicilv) pkcs. 644
Sulphuric acid (Amsterdam) 70
Tannic acid (Genoa) brls. 43
Tartar (Barcelona) 145. (Merseilles) 194. (Messina) 16,
(Naples) 17
Tartaric acid (Varseilles) es. 50,
eks. 8, (Barletta) pkgs. 252,
(Leghorn) es. 40
Thorium nitrate (Philadelphia)
es. 20
Vanilla (Ceylon) es. 2, (Bor-

Vanilla (Ceylon) cs. 2, (Bordeaux) 2 Wax, carnauba (Bahia) 354

Wax, bees' (Jamaica) brls. 11, tes. 3, (W. C. Africa) 27, (Spain) 60, (Rangoon) 23, (Morocco) 40, (Portugal) 82, (Catania) 23, (Chili) 138, (Zanzibar) 11, (Calcutta) bgs. 100, cs. 16, (E. Africa) 48, (France) 10, (Italy) 18, (via Havre) bgs. 88, cs. 22, (via Marseilles) 143

Wax, paraffin (U.S.A.) 3,984, (Java) 7,280, (Rangoon) 2,988 Wax, Japan (New York) 150, (Japan) 155 Wax, unenum, (Marscilles) bgs. 919

919 Wine-lees (Alicante) 50, (Valen-cia) 136 Yellow berries (Alexandria) 67 Zinc oxide (Rotterdam) 1,607, (New York) 2,600

Continental Drug and Chemical Markets.

The following notes chiefly refer to the Hamburg market, under date of November 28, December 2 and 9:

Aloes.—The stocks of Cape have rapidly decreased, and only cases are available at from m.135 to m.140 per 100 kilos

Areca is very scarce, only a few thousand kilos, offering

ARECA is very scarce, only a few thousand kilos. offering at m.85 per 100 kilos.

CALBAR BEANS.—With steadily diminishing stocks, prices have advanced. Nothing is to be had under m.290 to m.300 per 100 kilos.

m.300 per 100 kilos.

Cevadilla-seed.—As the principal sources of supply are closed, the very little stock in hand will shortly be exhausted. From m.200 to m.210 per 100 kilos, is quoted, which is considered decidedly cheap, in view of the position.

Cocaine.—Hydrochloride has advanced by m.20 per kilo, at from m.175 to m.180 per kilo. (Berlin).

Condurango has continued in good demand, and the price has advanced to m.77.50 to m.80 per 100 kilos.

Copper Sulphate.—Much interest is shown in the Berlin market; price is from m.54 to m.57 for 98 to 99 per cent., and paid readily.

Ergot meets with a very limited sale in Hamburg

market; price is from m.54 to m.57 for 98 to 99 per cent, and paid readily.

Ergot meets with a very limited sale in Hamburg, although stocks are only small, and prices are expected to advance. Russian has been sold at m.725 and German at m.700 per 100 kilos.; the stocks in Berlin are large, and several hundred kilos. can be disposed of at m.650.

Glycerin.—Though the prices of second-hand parcels of distilled glycerin continue favourable, there are practically no buyers, and it looks as if there were very fair stocks on hand. On the other hand, crude is advancing; 28° Bé. (s.g. 1.240) is quoted m.180 to m.190, and the price appears justifiable on account of the advance in fats and oils. Purchases are being made for speculation, and business for next year's delivery has been done.

Grains of Paradise continue to advance; m.175 per 100 kilos. is asked, but several want m.200.

Gum Acacia has been in active demand. Natural Kordofan is quoted m.135 and Senegal m.130 per 100 kilos. Ipecacunna.—With extremely small stocks Rio remains at m.37.50 and Cartagena m.27.50 per kilo.

Kola has been in good demand at m.150 per 100 kilos.

at m.37.50 and Cartagena m.27.50 per k10.

Kola has been in good demand at m.150 per 100 kilos. for quarters and m.135 for halves.

Lycopodium.—Demand is good, and m.640 in cases and m.635 in bags per 100 kilos, has been paid.

Mannite.—The Italian manna-erop was poor this year, and an advance in mannite is expected; there is practically no demand however.

MANNITE.—The Italian manna-crop was poor this year, and an advance in mannite is expected; there is practically no demand, however.

MENTHOL.—Quiet at m.34 per kilo, for best brands. Mint oil is quoted m.15.50 per kilo,, and small quantities of American oil are obtainable.

OILS (FIXED) AND FATS are eagerly sought after, with sellers steadily advancing prices. Linsced (Harburg) is m.96.50 to m.97. Rape is m.141 for crude and m.143 for refined, but stocks are almost cleared. Palm in small lots has been offered at m.138, but Lagos is very scarce at m.110. Soya-bean oil (Asiatic), in cases, m.74; German, erude ditto, m.105 to m.106, refined m.118. Ground-nut very steady at m.100. Coconut, m.135 to m.140 in small lots only. Castor is badly wanted, but offers are few; first pressing is m.230 to m.250, and second pressing m.210. Olive and Maize oils are not offered. American Cottonseed is scarce at m.100 per 100 kilos. Ceylon Coconut is m.145 and Cochin m.152. Lagos Palm scarce at m.125. Whale is active, and prices have advanced considerably. All the foregoing are in barrels at per 100 kilos.

PLATINUM.—No demand, and prices are about half those prevailing before the war.

ROSIN.—While the stocks of American are almost exhausted, the stocks of French, Spanish, Greek, and Mexican are quite cleared.

SHELLAC is only in slight demand, and lower at m.210

SHELLAC is only in slight demand, and lower at m.210 per 100 kilos.

per 100 kilos.

TURPENTINE OIL.—The military authorities not only "commandeered" the stocks in the petrol-harbour (400 to 500 barrels), but also at Dresden and other cities, so that no regular trading takes place. A census is being taken of all merchants' stocks, which will ultimately mean more seizures. Substitutes of vegetable origin, in iron drums, have been sold at from m.80 to m.105 per 100 kilos.

Vanillin.—Raw material is unobtainable, so that makers

VANILIN.—Haw material is unobtainable, so that makers ean only furnish small lots; second-hands have sold at m.60 to m.65 per kilo.; a further advance is expected.

WAX (VEGETABLE).—Carnauba is offered at from m.455 to m.475 per 100 kilos. for fatty grey; yellow is higher at from m.480 to m.510. The difference in price between grey and yellow is very small, and will certainly be widened shortly. Stocks are steadily diminishing, and efforts to procure imports by way of neutral ports have failed. There are a few small offers of Japanese at from m.185 to m.190 per 100 kilos.

ports by way of neutral ports have failed. There are a few small offers of Japanese at from m.185 to m.190 per 100 kilos.

Chemicals.—The German Labour Gazette ("Reichs-Arbeitsblatt"), reporting in regard to the chemical-trade in October, says: "The position was better on the whole than in the preceding month. The position of the organicacids industry is unchanged; the vitriol business is depressed: the gelatin industry has improved, owing to the increased sales to the home market and to neutral countries. The preparation of chemical and pharmaceutical products is satisfactory, owing to the demand from the military authorities, and has improved by reason of the increased trade with neutral States. This improvement did not take place, however, in every branch; three reports state that the business position was unchanged as compared with the preceding month, while one syndicate report attributes the non-improvement in business to the difficulties connected with the present export trade, so that it is rather a case of deterioration than of improvement. One of the reports received, however, attributes the improvement in the position to the removal of the export prohibition on some of the principal products. The shortened working hours are still partly in force, but the large factories, which are busy on army contracts, are working overtime. Business in the aniline-dye industry is not uniform; one of the large factories speaks of business being worse, while another reports an improvement in the business position. In the varnish-industry sales approximate to those of September. There was an improvement in the manufacture of all kinds of colours, partly owing to the increased exports and general improvement in the business position. In the varnish-industry sales approximate to those of September. There was an improvement in the manufacture of all kinds of colours, partly owing to the possibility of exporting to the United States: but home business, especially for non-poisonous colours for the coloured-paper industry,

LONDON INSURANCE COMMITTEE.

At a meeting of the Committee on December 17, the General Purposes Sub-Committee recommended that the Committee make arrangements on behalf of the Pharma-eeutical Committee for the pricing of prescriptions from January 1, provided that chemists and others on the panel furnish the Committee with the prescriptions grouped according to the prescribers. The same Sub-Committee reported that the Pharmaceutical Committee has agreed to pay one-third of the cest of pricing and checking prescripreported that the Pharmaceutical Committee has agreed to pay one-third of the cost of pricing and checking prescriptions for 1915, and that the Panel Committee has offered a contribution not exceeding 8007. The Sub-Committee recommended that the offer of the Panel Committee be accepted, but that that Committee be informed that this amount may not prove an equitable contribution, and it may be necessary to request them at a later date to increase the amount of their contribution. The Drugs and Appliances Sub-Committee reported that they had considered the accounts of chemists and others on the panel for September 1914, amounting to 12,004/. 9s. 3d., and had passed them for payment. The above amount represented 351,938 prescriptions, at an average cost of 8.7d. (see p. 57). The Medical Benefit Sub-Committee reported that chemists had been paid 7.202L, could to 60 per cent. of the amounts of their accounts for September 1914, and recommended that this proportion of the accounts for drugs be paid for the period October to December 1914.

WILLS PROVEN.

Mr. John Henry Varley Wilkinson, chemist and druggist, 10 Crown Street, Halifax, who died on October 19, left estate valued at 554l. 4s. 4d. gross, with net personalty 4s. 7d.

Mr. Joseph Kershaw Slack, ehemist and druggist, 27 Sandringham Road, Waterloo, Liverpool, who died on November 6, left estate valued at 1,1381, 0s. 3d. gross, with net personalty 1,1051, 1s. 8d.

Memoranda for Correspondents.

All communications must be accompanied by the names and addresses of the writers, otherwise they cannot be dealt with. Queries by subscribers on dispensing, legal, and miscellaneous subjects connected with the business are replied to in these columns if they are considered to be of general interest.

Correspondents are requested to write each query on a separate piece of paper. Every endeavour is made to reply to queries without delay, but insertion of the replies in "the next issue" cannot be guaranteed, nor, as a rule, can they be sent by post.

Letters submitted for publication (if suitable) should be written on one side of the paper only. Their publication in "The Chemist and Druggist" does not imply Editorial agreement with the opinions expressed.

Subscribers' Symposium.

For questions, answers, incidents, and interchange of opinions among "C. & D." readers.

Bovril Discounts.

Mr. H. M. Tranmer (Smethwick) has received letters from C. d.D. subscribers supporting his views in regard to Bovril discounts (C. d.D., December 12, p. 63), and would like to hear from others on the subject.

Appreciations.

"I have subscribed for the C. & D. for several years, and now I really would not care to be without it, as to us in the country its value for reference is inestimable."—(103/4.)

"I note quite a few changes in the 'Pharmaceutical Formulas,' which I am sure will increase its already great value to the pharmacist. The chapter on cleaning-materials alone has been worth many times the price of the book to mc."—R. L. Morland (Worthington, Minn., U.S.A.).

Sale of Medicated Wines

"The licensed traders in this town have been served with notice, under the Defence of the Realm Act, to close their premises at an earlier hour than usual. I hold a wine-licence, and sell Hall's Wine, Winearnis, Carvino, etc., and I have been served with a similar notice, with the exception that I am allowed to sell everything else but wines. The police authorities, however, want me to close my front door and attend eustomers for other goods at the private entrance. I would like to know your opinion on the matter, and if chemists in other towns were served with similar notices."—M.P.S.I. (199/44).

[The notice is in accordance with the law, and has been issued in many places in the United Kingdom. Where, however, the medicated wines or other intoxicating liquors are not exposed for sale in the shop, but kept in a room that can be locked, it is not usually required to shut the shop.—Editor C. & D.]

Regarding a Dropping-bottle.

Regarding a Dropping-bottle.

"In a busy pharmacy the customers one serves in a day are naturally somewhat varied," writes H. E. D. (190/56). "Many of them are sensible, straightforward people, and give little trouble. Others, on the other hand, are quite the reverse, and one requires a vast amount of patience, as well as time, to administer to their wants. I had a sample of one of the latter sort a few days ago, when a somewhat vacant-looking individual entered the shop and asked if we kept dropping-bottles. 'Yes, we do,' I replied. 'What size?' 'Oh—er, just a small one, I suppose,' was the reply. 'What is it to be used for? Do you want it for medicine, or—' 'Yes, that's it,' he said, vigorously nodding his head. 'Do you want it for dropping medicine out of for taking, or for putting drops into the eye?' I very deliberately persisted. 'Well,' he said, slowly drawing a paper from his poeket, 'it's for this.' Upon the paper was written by one of our well-known physicians:

Sol, adrenalin. 1 in 2,000 ... sij.

Sol. adrenalin. 1 in 2,000 ... sij.

Ft. gutt. Sig.: As directed.

(Signed) -

Send a dropping-bottle."

Bookkeeping in the Preliminary Examination.

An Apprentice (175/34) writes: "Perhaps it is not generally known that the Pharmaceutical Society accepts a certificate in commerce as an optional subject. After leaving school I entered on a commercial eareer, and at this time I attended the continuation classes, under the

School Board, for commercial subjects, including book-keeping. At the end of two years' study of elementary book-keeping I presented myself for examination in this subject under the Royal Society of Arts, London, and was successunder the Royal Society of Arts, London, and was successful. I then thought of going in for pharmacy, and commenced to study the necessary subjects so as to pass my Preliminary. I sat for the College of Preceptors' examination, and was successful in English, arithmetic, algebra, Euclid, and French, failing in Latin. When the Pharmaceutical Society brought out their new regulations I sent up my College of Preceptors' Certificate, along with the Society of Arts' one, in bookkeeping. These were accepted, and I was duly registered as an apprentice. I am writing this in the hope that it may be of assistance to some other student who is studying for his Preliminary."

Dispensing Difficulties and Notes.

Readers are advised to consult "The Art of Dispensing" in regard to difficulties of compounding. We welcome fresh problems for experiment and elucidation in this column, and invite the co-operation and correspondence of dispensers.

Lanoline Milk.

SIR,—I should be extremely obliged if you would inform me the best way to manipulate (to make a presentable preparation) the formula for laneline-milk:

Glyeerin 100 gram	Anhydrous lanol	line	 	100	grams
Water 750 gran	Glycerin				
mater 100 grain	Water				
Benzoin tineture 50 gram		9			
Gum mucilage 30 gram					0
Seent q.s.	Seent		 	q.s.	

Misce.

S. A. B. (163/64.)

S. A. B. (163/64.) [This formula as it stands is unworkable. It is usual in preparing a "milk" of this sort to employ a little soap. In the present instance a nice "milk" can be made by using half as much powdered hard soap as there is lanoline, and proceeding trus: Place the anhydrous lanoline, and proceeding trus: Place the anhydrous lanoline in a mortar warm enough to make it thin, and rub up with it the powdered hard soap; then incorporate gradually the water and mucilage (kind not specified, but we think tragacanth best), previously mixed; finally introduce the glycerin and tineture of benzoin in the order named. Some serviceable information regarding toilet-preparations of this character is given in "Pharmaceutical Formulas," pp. 7-12, including a formula for lanoline-milk on p. 11.]

Legal Queries.

The majority of difficulties in regard to trade law are anticipated by the legal information printed in "The Chemist and Druggist Diary," 1914. See especially pp. 469-499.

C. Glasgow (194/65).—There is nothing on your label to make it hable to medicine stamp-duty, "Liver-pills" being a body-name title which does not make the medicine liable to duty. (See C. & D. Diary, 1914, p. 487.)

Chinney (195/25).—Your best course is to see the Clerk of the Urban Council in regard to the snoke of your neigh-bour's chinney. We cannot possibly settle the question; it is entirely a matter of the Urban Council's by-laws, and they should determine whether or not the chinney is a nuisance.

Pharmacist (195/34).—If a Red Cross Society or any other Pharmacist (195/34).—It a Red Cross Society or any other body describe as a pharmacist a person who is not a registered chemist and druggist, they may get that person into trouble under Section 15 of the Pharmacy Act, 1868, for illegal use of the title, if he is a party to such use. The best way to stop it is to call the attention of the Registrar, 16 Bloomsbury Square, London, W.C., to the matter.

W. A. P. (198/37) had an Insurance prescription for "Spt. vini meth. 5x." presented on a Sunday evening. He asks if it is legal to dispense such a prescription, seeing that the Excise Regulations provide that no methylated spirit may be sold between the hours of 10 r.m. on Saturday spirit may be sold between the hours of 10 r.m. on Saturday and 8 a.m. on Mouday. [The Board of Customs and Excise does not interfere with the use of mineralised methylated spirits by registered chemists and druggists in the preparation of lotions for external use prescribed by duly qualified medical practitioners, and does not require the dispensers of such prescriptions to hold a licence to retail methylated spirit. The Board has given no authority to avoid the regulation as to Sunday in the case of methylated spirit itself. What chemists should do in such a caso as this is to consult the panel practitioner, inform him of the legal conditions, and suggest that he should prescribe the spirit in the form of a lotion, which would then come under the concessions granted by the Board of Customs and Excise.]

Miscellaneous Inquiries.

We do not undertake to analyse and report upon proprietary articles, and when samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for

We do not as a rule repeat information which has been given in this section during the past twelve months, as it occupies space which can be more profitably utilised for other information. In such cases the numbers are mentioned, and if querists cannot refer to these they may obtain the numbers from the "C. & D." Office at the published price, usually 6d.

Pyro (187/31).—The charges incurred by Pharmaceutical Pyro (187/51).—The charges incurred by Pharmaceutical Committees which form the basis for an allowance out of the Drug Fund comprise such items as stationery, printing, postages, remuneration of the secretary and his travelling expenses incurred in making inquiries, office charges (including rent and taxes), and any other expenses which may be incurred on behalf of the Committee for statutory work referred to it, but not including payments to members of the Committee as such. the Committee as such.

J. D. B. (185/2).—CREAM OF TARTAR is prepared from crude argol by dissolving the argol in hot water, filtering, and allowing the liquid to crystallise. The deposited crystals, which are still coloured, are again dissolved in hot water and recrystallised, some elay or white of egg being added in order to absorb the colouring matter. A small quantity of potassium carbonate is also introduced, in order to decompose any calcium tartrate which may be present. The last traces of calcium! tartrate are removed by a subsequent treatment with dilute hydrochloric acid. The process of making cream of tartar is referred to in most works on chemistry, but we are not acquainted with any work dealing specially with details of the plant employed.

S. C. S. (181/55).—FIRST-AID BOOK.—Warwick and Tunstall's "First Aid to the Injured and Sick" (Wright, 1s.) is the most-used book on this subject.

Gluten (189/35).—The MANUFACTURE OF GLUTEN-FLOUR.-The relatively small gluten-content of wheat-flour accounts for the comparatively high price of gluten-bread. The best

for the comparatively high price of gluten-bread. The best qualities of wheat contain from 10 to 15 per cent. of gluten, but often the yield of gluten is below this. There are several processes for making gluten, but it is chiefly obtained as a by-product in the manufacture of starch. The following is a method of preparing this substance, which was given in the \(\epsilon \text{D. Diary, 1908} : \)

A "hard" or "strong" flour is selected, and made into a tough dough with water. This dough is allowed to stand for an hour or two, and is then taken in small pieces and washed in plenty of water (running water is employed when making gluten-flour by this method on a large scale) by kneading with the hands. The dough may have been previously enclosed in muslin. The washing is carried on till the water ceases to be rendered milky, which indicates that the greater part of tho starch and sugar has been removed. The glutinous mass is then drained, shaped, and baked in the usual way, but in small pieces only, as the dough swells enormously in the oven.

J. S. (2/12).—The MANUFACTURE OF SYNTHETIC DRUGS.—There is no work which covers the ground you require. We have recently published a series of articles dealing with the manufacture of such substances as antipyrin, salicylates, phenacetin, photographic developers, etc., which you will find useful. We also recently (C. & D., Angust 29, p. 55) reviewed the fifth volume of the "Encyclopédic de Science Chimique," which deals with the same subject.

Brutus (185/1),—Perfume for Spraying Cinematograph-theatres.—See C_7 d D_7 , June 27, p. 104.

P. G. (95/23).—Damp-proof Glue.—This is made by adding spirit-varnish to the melted glue and well mixing.

The complete recipe is as follows:

1. Soak 1 lb. glue in a pint of water for twelve hours.

2. Soak 1 oz. white gelatin in 8 oz. of water for two hours

3. Dissolve-Sandarae OZ. Mastie in-Spirit ... and add-Oil of turpentine ...

Dissolve No. 1 in the glue-pot, add No. 2, and continue the heat until this also is dissolved: then allow the liquid to cool to \$5° F., and add No. 3 by stirring, and, if the glue is required for fine work, strain through butter-cloth.

K. P. R. (195/28).—COAL-SAVING PREPARATIONS.—It is some A. P. R. (195/25).—Coal-saving Preparations.—It is some years since we examined samples of the powders which were sold for the purpose of economising coal-consumption. We found them to consist of salt variously disguised, or else to contain a little potassium nitrate or sulphur in addition to the salt. So far as we are aware, the claims that any economy of coal is effected by sprinkling it with salt water are not well founded.

 $J.\ P.\ J.\ (190/74).—HEMATOGEN.—A good formula for preparing this was given in the <math display="inline">C.\ \&\ D.,\ July\ 25,\ p.\ 143.$

Lumen (190/48) and J. F. R. (187/61).—LUMINOUS PAINT.—We have given frequently formulæ for luminous paint in the C. & D., the last time being July 26, 1913. p. 132. Other recipes are given in "Pharmaceutical Formulas."

- B. & F. (185/36).—(1) PRESERVING HYDROGEN PEROXIDE.—
 For this purpose acetanilide is employed. The quantity used is quite small—about 1½ grain per gal. It is dissolved in the liquid by mechanical agitation. It is generally supposed that shaking peroxide of hydrogen decomposes it, but this is not the case. You do not state whether you are making the peroxide on a commercial scale, but the acetanilide is added at the stage when the liquid, having been passed through a filter-press, has been allowed to stand all night to separate the residual barium sulphate. (2) AZOLITMIN.—The process of manufacture consists in mixing litmus with concentrated sulphuric acid, and after the mixture has become dry it is powdered and extracted with strong alcohol, the extract poured into water, and the precipitated azolitmin separated from the liquid, washed with cold water, dried in a water-oven, and powdered. cold water, dried in a water-oven, and powdered.
- J. G. (187/35).—The Oxford or Historical English Dictionary (Sir James Murray's) is published in parts, but is best purchased in half-volumes, which vary in price from 1l. 7s. 6d. to 2l. 2s. 6d. These may be obtained through any bookseller. The publication has been going on now for about twenty years, and so far eight complete volumes have appeared. have appeared.
- X. Y. Z. (195/10).—We presume that it is foot-rot cream, p. 387 of "Veterinary Counter-practice," to which you refer, and that the fermentation is due to the honey. It may be prevented by boiling the honey for five minutes before using it to make the other ingredients into a paste.
- B. L. (195/13).—Lucas's "Practical Pharmacy," published by Churchill at 12s. 6d., explains the RATIONALE OF PHARMACOPGIA PREPARATIONS, and it may be advisable for you to wait until the new Pharmacopœia is published.

Anthem (174/12).—(1) Daisies on Bowling-Green.—Digging out the daisy-root is the best method of extirpating daisies. The process of dripping sulphuric acid on the centre of the daisy-root is not so easy; it leaves the unsightly dead leaves behind and, rendering the soil acid, makes it difficult to fill up the patch. (2) Gingerine gr. ix. equals tinct. zingib. fort. 5j., and capsicin gr. iij. equals tinct capsici 3iiss.

- W. H. W. (180/48).—The Analysis of Creosote and Cresylic Acid Sheep-dips is dealt with in Bulletin 107, Bureau of Animal Industry. United States Department of Agriculture. The methods are quoted in Allen's "Commercial Organic Analysis," Vol. III., p. 318. The latter work is published by Churchill at 21s. a volume.
- J. W. (177/7).—(1) SANATOGEN is made by combining 5 per cent. of sodium glycerophosphate with casein. Care is taken to free the casein from fat, this being accomplished, we believe, by the use of ether. (2) CARBO-EUGENOL.—As this is a proprietary article, we do not know the composition. Both phenol and eugenol are employed as root-dressings in dentistry, and it is not unlikely that a mixture of the two is used in the preparation to which you refer. The powder used with it is probably zine oxide.
- N. A. P. (Baroda) (162/43).—Leftwich's "Pocket-book of Treatment" (Arnold, 6s.) is a useful book for a medical man as a guide to prescribing. If you will explain more fully your requirements, we may be able to suggest other works.

Calcium (175/72).—(1) Radiators-water.—The best plan to prevent trouble from deposition of lime in the radiators of motor-cars is to use distilled or rain water for filling the radiator. Additions to hard water, with a view to overcoming the tendency to deposit lime, only lead to further troubles. (2) To Prevent the Water Freezing in radiators, it is best to use calcium chloride, which can be obtained in a crude form for the purpose. A 10-per-cent. solution freezes at -5.9° C. 16-per-cent. at -12.2° C., and 20-per-cent. at -18.6 C. Glycerin and spirit, sometimes employed, are more expensive, and have other disadvantages.

Vet. Chemist (177/2).—Liquid Blister for Horses.—We gave a good formula in the C. & D., January 3, p. 64, which should suit your requirements.

- J. M. B. (175/29).—If experience shows that, owing to the weather or other cause, excess of wax has been introduced into the lime-cream, it could be mixed with another batch prepared without wax. The liquid can be readily removed from the bottles after they have stood in hot water.
- J. G. N. (177/48).—BRONZING BRASS BUTTONS.—There is considerable demand for a liquid that will render brass buttons on uniforms less conspicuous, and in the case of some regiments the buttons are required to be black. The following are the various solutions suggested:

Potassium ferro-cyanide 1 oz. Nitric acid 3 dr. Water 20 oz. Water 20 oz.

3. Copper nitrate Oxalic acid ... Water ... 20 oz.

The buttons must be freed from gilding or grease by brushing with whiting, followed by benzine, and then one or other of the above solutions is applied with a small brush, taking care to avoid touching the cloth. Heating the metal in a bunsen flame helps matters, and it is also more advantageous to use the solutions hot.

Shampoo (179/21).—(1) Shampoo-powder for Dry Use.—See C. & D., May 30, 1914, p. 72, or April 19, 1913 p. 60. (2) Scerf-lotion.—The following has been used with success:

Tinct. krameriæ	 	 1 part
Tinct. cantharid.	 	 6 parts
Tinct, jaborandi	 	 6 parts
Aq. coloniensis	 	 8 parts
Glyc, boracis	 	
Spt. myrciæ	 	
Aq. rosæ ad	 	 200 parts

F. W. F. (178/2).—Brewing Estimations.—You will find in Bater's "Brewing Calculations" (Spon, 1s. 6d.) the details of the estimations you require. The specific gravity of beer from which the calculation for Excise duty is made is taken from the worts. You will be better able to judge as to the charge to be made when you have read up the subject. subject.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," Dec. 15, 1864.

Glasgow Chemists and Druggists' Association.

A meeting of chemists and druggists was held in the Lesser Trades Hall, Glassford Street, on Thursday evening, November 24, to consider the proposed Bills of the Pharmaceutical and United Societies. Copies of each Bill had been distributed among the profession during the previous week by the Chemists and Druggists' Association. During the preliminary arrangements it had been a matter of discussion whether the meeting should be one of employers only; but seeing that the proposed Bills were intended to affect the entire profession, an invitation had been issued to all. A deputation from the Pharmaceutical Society, Edinburgh, was present, consisting of the following gentlemen: Mr. Kemp (President), Messrs, Brown, Ainslie, Blanchard, Young, and Mr. John Mackay (Secretary). . . . Mr. C. Buott, Registrar of the United Society of Chemists and Druggists, was also present.

[The report as communicated by the Secretary of the Association then proceeds, to the extent of two columns, to epitomise speeches by Mr. Buott, Mr. Mackay, and Mr. Thomas D. Moffat, the last named concluding with the following motion:

"They as the Bills of the Pharmaceutical and United Societies

following motion:

"That, as the Bills of the Pharmaceutical and United Societies ignore and make no provision for the retaining of any part of the funds in Scotland, it is the opinion of this meeting that it would be an act of injustice to pass a resolution in favour of either; that both should be opposed, and the influence of this meeting be used with the Scotch members of Parliament accordingly."

Mr. John Campbell then spoke, and was followed by Mr. James Taite, who submitted as an amendment:

"That legislative restriction is necessary to the public safety, and that one of the Bills should therefore be supported; that the proposed Bill of the Pharmaceutical Society, not being based on any ground of monopoly, is more likely to meet the sanction of our free-trade Legislature, and, as emanating from a society already in existence, renders a second society unnecessary."

Mr. Alexander Kinninmont seconded. "At this juncture an unpleasant contretemps occurred." Ultimately "the Chairman put Mr. Taite's amendment to the meeting, and afterwards Mr. Moffat's motion to oppose both Bills, when the latter was carried by a large majority."]

i

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60-64 ARTILLERY LANE, LONDON, E. And at 24 LUNA STREET, MANCHESTER.

PRICES ISSUED WEEKLY.

Original Packages can generally be supplied at the Current Prices quoted in the Trade Report of this Paper on Terms as below

N.B.—We would draw attention to the fact that all prices quoted herein are subject to alteration without notice, and that where stocks are limited preference is always given to our regular customers.

Acetanilide, B.P., 7 lbs. @ 2/- lb. 1 lb. @ 2/3 lb.; powder, 1d. lb. extra.

*Acet. Ipecac. B.P., 7 lbs. @ 1/9 lb.

"Scille P.B., 7 lbs. @ 3d. lb

*Acetone, 6 lbs. @ 1/6 lb.: 1 lb. @ 1/9 lb.

*Acid. Acet. Glacial, 99 %, Carboys, 160 lbs.

@ 50/-: 12 6-lb. bots. @ 9d. lb.; 6 lbs.
@ 10d. lb.

Acet. Salest. 56 lbs. @ 7/-: 7 lbs. @ 7.3

@ 50/-; 12 b-lb. bots. @ 9d. lb.; 6 lbs. @ 10d. lb.

" Acetylo-Salicy!, 56 lbs. @ 7/-; 7 lbs. @ 7,3 lb; 1 lb. @ 8/- lb.

" Benz. P.B., 7 lbs. @ 4/6 lb.; 1 lb. @ 4/10 lb.

" Boric Pulv., 3 cwt. @ 34/- cwt; 1 cwt. @ 34/6 cwt.; levigd. 3/- cwt. or \{d. lb. extra.

" Carbol. Xtls., 39/40; 56 lbs. @ 1/3 lb.; 10 lb. Tins @ 13/- each; 36 1-lb Bots. @ 1/5 lb.; 5 ingle Bots. @ 1/7 lb; Detached Cryst. 10 lb. Tins @ 14/- each; 1 lb. @ 1/9 lb.; Crude Black, 45 gall. casks @ 1/- gall.; 5 gall. drums @ 1/4 gall.; 1 gall. tins @ 1/6 each.

" Citric Cryst., B.P., '85, 7 lbs. in Bags @ 2/7 lb.; powder \{d. lb. extra.

" Diethylbarbituric, 1 oz. @ 2/- oz

" Gallic pur., P.B., 7 lbs. @ 4/9 lb.; 1 lb. @ 5/- lb.

Hudrobrom. Dil P.B. & 18. @ 1/21 lb.

5/- lb

5/- lb.

Hydrobrom., Dil. P.B., 6 lbs. @ 1/3½ lb

Hydrochlor. Coml., cases of 4 2-gal. [20]

18/6 each; 20 case lots @ 17/6 each.

Hydrocyan. P.B., 6 lbs. @ 1/2 lb.; 1 lb. @

1/5 lb.; 36 1-oz. Vials @ 3/9 doz.

Oxalic Cryst., 1 cwt. @ ½d. lb.; 14 lbs. @

24 lb.

9d lb.

*, Pbosph, Dil , B.P., 7 lbs. @ 4\d. lb.

*, Salievi pulv. 7 lbs. @ 4 10 lb

*, Sulphur, Coml., cases, 4 2-gal. jars, 18/6
each , 20 cases @ 17/6 each.

*, Sulph. Aromat. B.P., 5 lbs. @ 3/8 lb.

*, Tannic, B.P., 1 lb. @ 5/3 lb.

*, Tart., cryst. or pulv., B.P., 1885, 7 lbs. @
1/8 lb.: parv. \dd lb. extra.

Adeps Benz., B.P., 28 lbs. @ 9d. lb.; 7 lbs.

*@ 10d. lb.

*Erugo Æris Pulv. 14 lbs. © 11/8 lb.

Ærugo Æris Pulv., 14 lbs. @ 11d. lb.

Aloes Barb., English ground, 28 lbs. @ 98/- cwt.; 7 lbs. @ 11½ d. lb.
Aloes, Socot. 7 lbs. @ 1/5 lb.; powder, 7 lbs. @

1/5 lb Aloin, B.P., 1 lb. @ 4/9 lb.

Ammon. Benz., 7 lbs. @ 4/6 lb.; 1 lb. @ 5/- lb. Ammon. Brom., P.B., 1 cwt. @ 3/9 lb.; 7 lbs.

@ 4/- lb. Ammon. Carb., lump, 3 cwt. @ 4½ i. lb.; 28 lbs. @ 5½ i. lb.; 7 lbs. @ 6d. lb.; pow er,

@ 5½d. lb.; d. lb. extra. Ammon. Chlor, 99% pulv., 1 cwt. @ 44/- cwt.; 7 lbs. @ 6d. lb.; Batteries, 4/- cwt. extra.

Amyli Pulv., 10 cwt. @ 13/- cwt.; 2½ cwt. @ 14/- cwt.; 1 cwt. @ 16/- cwt. Aniseed, English ground, 1 cwt. @ 68/- cwt. 7 lbs. @ 8d. lb.

Antim. Crocus Pulv., 1 cwt. @ 42/- cwt.; 7 lbs. @ 5½ d. lb.

Antim. Nig. Pulv., 1 cwt. @ 30/- cwt.; 14 lbs. @ 34/- cwt.
Antim Tart pulv 7 lbs @ 1/6 lb.

Apiol, 1 lb. @ 34/- lb.

Apiol, 1 lb. @ 34/- lb.

*Aqua Anetbi Conc. 1-40, 1 lb. @ 2/11 lb.

* , Anist Conc. 1-40, 1 lb. @ 3/1 lb.

* , Aurant. Conc. 1-40, 1 lb. @ 6/1 lb.

* , Aurant. Trip., 6 lbs. @ 7d. lb.

* , Cinnam. Conc. 1-40, 1 lb. @ 3/4 lb.

* , Cinnam. Conc. 1-40, 1 lb. @ 3/4 lb.

* , Laurocerasi, 6 lbs. @ 7d. lb.

* , Menth. Pip. Conc., 1-40, 1 lb. @ 3/- lb.

* , Rosæ Conc. 1-40, 1 lb. @ 7/- lb.

* , Rosæ Trip., 6 lbs. @ 7d. lb.

* , Samb. Conc., 1-40, 1 lb. @ 6/1 lb.

* , Samb. Trip. o lbs. @ 8d. lb.

Araroba, fue powder, 7 lbs. @ 4/3 lb.; 1 lb. @ 4/6 lb.

Argent. Nit., 6's to oz., 25 oz. @ $1/9\frac{1}{2}$ oz.; 1 oz. [@ 1/11 oz.

Margent. Nit., Cryst., 25 oz. @ 1/8 oz.; 8 oz. @ 1/9 oz. Arsenic, Alb. Pulv. 2 cwt. @ 20/– cwt.; 7 lbs. @ 4d. lb.

Atropinæ Sulph., P.B., 1 oz. @ 80/- oz. Auri. Chlor., 6 doz. 15 gr. tubes @ 21/3 doz.; 1 doz. 15 gr. tubes @ 21/6 doz.

Bals. Copaibæ, pure, 44 lbs. @ 1/8½ lb.; 9 lbs. @ 1/11 lb. 1 lb. @ 2/2 lb. Peruv., P.B., 7 lbs. @ 8/6 lb.; 1 lb. @ 9/-

Sulphur, 7 lbs. @ 8d. lb.
Tolut. B.P., 50 lbs. @ 2/5 lb.; 1 lb. @ 3/2

lb. Benzo-Naphthol, 7 lbs. @ 4/- lb. : 1 lb. @ 4/3 lb.

Bismutb, P.B., Carb., 28 lbs. @ 11/6 lb.; 7 lbs. @ 11/9 lb.; 3 lbs. @ 12/- lb.; 1 lb. @ 12 4 lb.; subnit. 1/- lb. less.

Boracic Mixture, 1 cwt. @ 44/- cwt. Borax, 1 cwt. @ 20/-; powder 1/- extra. Butvl-Chloral Hydras., P.B., 1 lb. @ 14/- lb.

Butvl-Chloral Hydras., P.B., 1 lb. @ 14/- lb.

Gaffeine, P.B., 1 lb. @ 18/6 lb.

Caffeine Cit., B.P., 1 lb. @ 13/6 lb.

Calamina, powder, fine pink, 5 cwt. @ 11/6 cwt.;
1 cwt. @ 12/6 cwt.; 7 lbs. @ 2d. lb.

Calamine, B.P., 1885, 7 lbs. @ 1/- lb.

Calcii Carb. Præcip., 5 cwt. @ 13/- cwt.; 1 cwt.
@ 16/- cwt.; 28 lbs. @ 21/- cwt.; 7 lbs. @
54. lb.
Hydras., P.B., 1 cwt. @ 25/- cwt.; 7 lbs. @
54. lb.
, Hydpophospb. Pur., P.B., 1 lb. @ 2/3 lb.
, 1 odid., 1 lb. @ 18/6 lb.

Campbor, Euglish Flowers, "not artificial,"
5 lbs. @ 2/3 lb., ½ oz or † 20.7 lbs. @ 2/4 lb
Crude, good wbite, about 92% as imported,
140 lbs. @ 19½ lb.: 28 lbs. @ 1/10½ lb.
Cantharides, Russian, 7 lbs. @ 17/6 lb.; powder
6d. lb. extra.

Capsicine, soluble, 1 lb. @ 6/6 lb.
Carbo Animalis or Ligni, powder or lump, 1 cwt.

Carbo Animalis or Ligni, powder or lump, 1 cwt. @ 16/- cwt.; 28 lbs. @ 2½d. lb.
Cardamoms, 28 lbs. @ 4/3 lb.; 7 lbs. @ 4/6 lb.

Carmine, Finest 1 lb. @ 25/- lb.; No. 2, 1 lb. @ 20/- lb.

© 20/- 0.0 Cera Alba, B. P., White Moons, 28 lbs. @ 2/1 lb.; 4 lbs. @ 2/2 lb.; Flav. 1 lb. Blocks, 28 lbs. @ 1/9½ lb; 4 lbs. @ 1/10½ lb.; 1 oz., ½ oz. Tabs., 7 lbs @ 1/10½ lb.

Cerii Oxalas, 7 lbs. @ 1/4 lb.

Cetaceum, No. 1, fine white, 64 lbs. @ 11d. lb.; 7 lbs. @ 1/1 lb.; powder, 7 lbs. @ 1/6 lb. Chloral Hydras Cryst. B.P., 7 lbs. @ 7/6 lb.; 1 lb. @ 8/– lb.

*Chlorodyne, 5 lbs. @ 2/- lb.

*Chlorotorm, pure, B.P., 12 8-lbs. @ 1/9 lb.; 8 lbs. @ 1/10 lb.; 6 1-lb. bots. @ 2/- lb. Cocaine Hydrocblor., B.P., 25 ozs. @ 7/8 oz.; 4 ozs. @ 8/3 oz.; 1 oz. @ 9/- oz. Codeina, 1 oz. @ 24/- oz.; Phosph., 1 oz. @ 20/- oz.; Hydrocblor. or Sulph., 1 oz. @

21/- oz.

Colocynth, Apple, English ground, 1 cwt. @ 1 1 lb.; 28 lbs. @ 1/2 lb.; 7 lbs. @ 1/3 lb.

Composition Powder (Coffin's), 1 cwt. @ 58/-cwt.; 7 lbs. @ 7_2^1 d. lb.

Conf. Sennæ, P.B., 14 lbs. @ 9d. lb.; 7 lbs. @ 9½d. lb.

Cort. Aurant. Exot. Shreds, 7 lbs. @ 2/10 lb.
,, Cinchon. Rub. (Quill), 7 lbs. @ 1/– lb.
,, Ulmi Fulvæ, Pulv., 1 cwt. @ 8½d. lb.; 7 lbs. @ 10d. lb.

Cream of Tartar, 98% powder, 7 lbs. @ 1/8 lb. Creasote, Beechwood, P.B., 7 lbs. @ 3/6 lb.

Creta c. Camph., 7 lbs. @ 8d. lb. " Gall. Pulv., in sacks, 10 cwt. @ 7/9 cwt.; 1 cwt. @ 9/3 cwt.; 14 lbs. @ 1½d. lb. Creta Præparata, 7 lbs. in box, 9d. each. Cubebæ, English ground, 28 lbs. @ 1/11 lb.; 7 lbs. @ 2/- lb.

ec. Aloes Co. Conc. 1-2, 6 lbs. @ 2/9 lb.; Sinecroco, 6 lbs. @ 1/2 lb. Cinchonæ (Rubræ) Conc. 1-7, 6 lbs. @ 1/10 ٠,,

Senegæ Conc., 6 lbs. @ 2/6 lb.

Emp. Spread, 12 yards × 16 ins. adhesive, 3/8;
Ballad. B.P.C., Green @ 16/6; Cerat.
Saponis @ 7/6; Picis Co. @ 7/6; Plumbi
@ 6/-; Resinæ @ 4/6; Roborans @ 6/-;
Saponis, B.P. @ 6/", Picis, P.B., 7 lbs. @ 8½d. lb.
", Plumbi P.B., 7 lbs. @ 8½d. lb.
", Resinæ P.B., 7 lbs. @ 8½d. lb.
", Roborans, 7 lbs. @ 8½d. lb.
Emulsio Ol. Morrhuæ, 5 lbs. @ 11d. lb.
Eserine Sulph. in 15-grain tubes, 6/6 each.
Ess. Bergam. (Oil), 12 lbs. @ 12/6 lb.; 1 lb.
@ 13/6 lb.; not guaranteed absolutely pure.

@ 13/6 lb.; not guaranteed absolutely pure.

Ess. Linonis (oil) original coppers, 12 lbs.
@ 4/9 lb.; 6 1-lb. bots. @ 5/3 lb.; not guaranteed absolutely pure.

*Ess. Moschi (not artificial), 5 lbs. @ 10/3 lb.; 1 lb. @ 11/3 lb.

*Ess. Pear (artificial), Jargonelle, 5 lbs. @ 2/- lb.; Bergamot, 2/6 lb.

*Ess. Pineapple, 5 lbs. @ 3/4 lb.

*, Raspberry, 5 lbs. @ 2/2 lb.; 1 lb. @ 2/6 lb.

lb. Vanilla Beans, 5 lb. @ 4/4 lb.; 1 lb. @

*, Vanilla Beans, 5 lb. @ 4/4 lb.; 1 lb. @ 4/7 lb.

*Ext. Belladonnæ Liq., B.P., 5 lbs. @ 7/- lb.; 1 lb. @ 7/3 lb.; solid, 7 lbs. @ 4/7 lb.

Ext. Cannab. Ind. Alc., B.P., 1 lb. @ 45/- lb.

Ext. Cascara Sag. Liq., B.P., 1 cwt. @ 1/0\frac{1}{2} lb.; 10 lbs. @ 1/2 lb.

*Ext. Ergot. Liq. P.B., 5 lbs. @ 4/9 lb.; 1 lb. @ 5/3 lb.; Solid, P.B., 4 lbs. @ 27/6 lb.; 1 lb. @ 28/6 lb.

Ext. Filicis Liq., P.B., 9 lbs. @ 8/9 lb.; 1 lb. @ 9/- lb.

Ext. Filicis Liq., P.B., 9 108. @ 0/7 10.; 7 108. @ 9/-10. g 9/-10. Ext. Gent., P.B., solid, 1 cwt. @ 1/-10.; 7 108. @ 1/2 10. *Ext. Glycyrrh. Liq., B.P., 6 108. @ 1/7½ 10. *Ext. Hymamelis Liq., P.B., 5 108. @ 3/5 10. Ext. Hyoscyam., Solid, B.P., 3 108. @ 5/1 10.; 1 10. @ 5/5 10. *Ext. Ipecac. Liq., P.B., 5 108. @ 18/- 11.; 1 10. @ 19/- 10.

Ext. 1pecac. Liq., F.D., 5 lbs. @ 5½d. lb.
Ext. Matti c. Ol. Jecoris, 10 lbs. @ 5½d. lb.
Ext. Nucis Vom. Liq., P.B., 5 lbs. @ 3/5 lb.; 1 lb. @ 3/8 lb.; solid, 5 lbs. @ 3/7 lb.; 1 lb.

@ 3/10 lb. Ext. Opii Solid, P.B., 1 lb. @ 55/- lb. *Ext. Opii Liq., B.P., 5 lbs. @ 4/8 lb.; 1 lb. @ 5/- lb.

Ext. Quassiae, Solid, 7 lbs. @ 6/- lb.; 1 lb. @ 6/4 lb.

Ext. Sarsæ Co. Solid, 7 lbs. @ 6/- lb.; 1 lb. @ 6/6 lb.

rri Ammon. Cit., P.B., 28 lbs. @ 2/8 lb.; 7 lbs. at 2/10 lb. Ferri Carb., 1 cwt. @ 21/- cwt.; 28 lbs.@ 3d. lb.

Ferri Carb., I cwt. @ 21/- cwt.; 28 lbs.@ 3d. lb.
Ferri et Quininæ Cit. P.B., 100 ozs. @ 6\flat. oz.;
25 ozs. @ 7\flat. oz
Ferri Sulph., pure cryst., 1 cwt. @ 15/-; 7 lbs.
@ 3d. lb.
Ferrum Redact., 80%, 28 lbs. @ 1/6 lb.; 7 lbs.
@ 1/7 lb.
Flor. Anth. Exot., 7 lbs. @ 1/8 lb.

Fol. Buchu, oval, good green, 7 lbs. @ 2/8 lb. Fol. Hyoscyam. Bien., 7 lbs. @ 5/- lb.; pulv., 4/6 lb.

Fol. Sennæ Alex. parv., 28 lbs. @ 6d. lb.

*Minimum quantity at these prices; Home Trade, 3 Winchester Quarts assorted; Export, 12 Winchester Quarts and most NOTE. -Only terms Net Cash with order without discount, or orders accepted through London Merchants or Bankers Goods carriage forward; all packages free; Export cases extra-

ALLIANCE DRUG & CHEMICAL CO., LONDON

Offices: 34 LEADENHALL STREET.

KINDLY DETACH THIS SHEET AND PLACE IT IN YOUR BUYING BOOK,

Liquid Barkola Compound

This well-known preparation has now been restored to the market in a highly improved form. Extensive advertising is in progress throughout the United Kingdom. Announcements take two forms, namely: One advising Barkola with the addition of water only; and the other following the original prescription first introduced by Barkola several years ago.

Face Price, 2/3 per bottle. Wholesale, 21/- per dozen. MOST WHOLESALE HOUSES HOLD STOCK.

COMPANY, THE OLD FORT CHEMICAL LIMITED. 27 BUCKINGHAM ROAD, LONDON, N.

A few tons Fine Pea Crystals available 15/- per cwt. Keg. F.O.R. C.W.O.

Chemists publishing Views should get details of our NEW BRONTONE PROCESS.

LILYWHITE, LTD.

Photo Chemical Works,

HALIFAX.

DO YOU WANT AMERICAN TRADE?

British manufacturers of medicines, druggists' sundries and allied goods have now an exceptional opportunity in view of the absence of the recent strong German competition. The American public is strongly pro-British, and such an oppor-tunity of securing trade in this huge field is one of which British Manufacturers should at once take advantage. We shall be glad to hear from those interested and willing

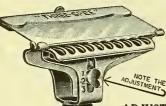
to arrange for an American agency.

Full particulars and samples should be sent to

ETNA CHEMICAL CO.,

Sale American Agents for Viral, and Sale Manufacturers and Praprietors of Phenalgin.
59 Bank Street, NEW YORK.

THE



with the

ADJUSTABLE BLADE

BRITISH MADE.

Fixed Trade Price 60/- doz. Fixed Retail Price 7/6 each.

> BLADES, 21/- per gross. Retail, 3/6 per doz.

Terms: 21 per cent., 30 days.

Heavy Electro-plated, first-class finish, in neat "REXINE" covered case, lined velvet and satin, complete with six blades and stropper. Once adjusted remains locked permanently. Blades easily stropped. Frame can be adjusted to take solid blades. Blades fixed in a second. Impossible for blades to rust,

Sole Distributer for the Manufacturer:

William P. Kelland

36 Camomile St., London, E.C.

And 52 St. Enoch Square, Glasgow.



HEPATICA

PUT UP FOR EXPORT.

Small Size, 3 oz. bottle, in case. 7 ,, Medium "

Large ,, 16 ,,

OBTAINABLE IN LONDON FROM

Thos. Christy & Co., 4-12 Old Swan Lane, Upper Thames Street, E.C.

The American Drug Stores, Trafalgar Bldgs., 6 Northumb rland Avenue, London, W.C. burgoyne, Burbidges & Co., 16 Coleman St., E.C.

F. Newbery & Sons, Ltd., 27 Charterhouse

Roberts & Co., 76 New Bond Street. W



<u> IPPRAMEN</u>

OFFICE: 42 CANNON STREET, E.C.

SATURDAY, DECEMBER 19, 1914.

Christmas Holidays.

The issue of THE CHEMIST & DRUGGIST dated Dec. 26 will be posted to Subscribers on Wednesday night, the 23rd inst. Advertisements for the Supplement must reach the Office, 42 Cannon St., London, E.C., not later than first post Wednesday morning, the 23rd inst., to ensure publication, All Advertisements received after this date will be inserted the following week.

THE OFFICES OF CHEMIST DRUGGIST will be closed from Thursday Midday, Dec. 24, till Monday Morning, December 28.

Always at the Front

XMAS 1914

in helping Chemists and their assistants to enjoy Christmas and a New Year of Prosperity.

NEW YEAR 1915

THE CHEMIST & DRUGGIST SUPPLEMENT.

CHEMISTS' TRANSFE Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number: City 2283.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—LONDON, S.E.—Cash Drng Store; situate in main thoroughfare of working and middle class locality; returns between £950 and £1,000; net profit over £400 (proof given); good house and garden; rent very moderate; price £450.

2.—LONDON, S.W.—An old-established Business, good-class Retail and Dispensing; returns show a steady increase, present rate about £1,500; good opportunity for a pushing man; price to be arranged.

3.—LONDON, E.C.—Lock-up Shop; returns £834; easily extended; net profit £246 (proof given); terms, valuation of stock and fixtures, between £300 and £400.

4.—LONDON, S.W. (Residential Locality).—Good-class Retail and Dispensing Business; situate in busy main thoroughfare; returns £1,420 at good prices; to effect a speedy transfer the sum of £800 will be accepted.

5.—LONDON. S.W.—Ready-money Business; returns £1,000 yearly; net profit £300; full investigation permitted; the premises are held on lease; price £750, or valuation of stock and fixtures.

6.—LONDON, N.—Retail and Dispensing Business; situate in shopping thoroughfare; returns between £1,700 and £1,800 per annum; gross profit 40 per cent.; price about £1,100; full investigation invited.

7.—LONDON, S.E.—Special opportunity; for immediate Disposal, middle-class Retail and Dispensing Business; returns under manager about £700; scope for considerable development; price

8.—SURREY (Charming Locality).—Good-class Business; returns (present rate) £1,600, gradually increasing; net profit about £350; the shop is well fitted and stocked; terms, goodwill £100 and valuation of stock and fixtures.

9.—SUSSEX.—Good-class Business, Retail and Dispensing; returns increase yearly, last year being £860; net profit £253; double-fronted shop, well fitted and stocked; comfortable residence; price £850.

10.—EXETER (Within Easy Distance of).—Retail and Dispensing Business; returns between £750 and £800; net profit about £225; convenient house; held on lease; price £500.

11.—BRISTOL CHANNEL.—Thoroughly sound Retail and Dispensing Business; returns $\pounds 1,500$ yearly; capital premises; terms, valuation of stook and fixtures.

12.—MIDDLESEX (Few Miles Out).—Middle class Business, Retail and Dispensing; main thoroughfare; returns £900; large double-fronted shop; price £250; part payment entertained.

13.—SEASIDE (Fashionable Watering-place).—Old-established Business, General Retail and Optical; returns £1,600; attractive shop; very commanding position; terms, small premium and valuation of stock and fixtures.

14.—DEVON.—Light Retail and Dispensing Business; well situate in one of the principal streets; returns £500 at good profits; full investigation permitted; commodious residence; terms, valuation of stock and fixtures, or lump sum of £325.

VALUATIONS FOR STOCKTAKING.

Ressrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone Profit the value of Rusiness, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.

ORRIDGE & CO. 56 LUDGATE HILL LONDON

XVIII

Licensed Valuers,

73 LAUREL ROAD, LEICESTER.

Telephone 1934.

gelegrams, "Brett Leicester."

F. J. BRETT, M.P.S.,

GIVES PERSONAL ATTENTION TO ALL VALUATIONS. NO CHARGE TO BUYERS.

AGENCY.—We have always a large number of Buyers on our books, and we can frequently find a purchaser at once. We also have a Private Register for vendors who are in no hurry to sell, and who do not wish their businesses to be advertised.

STOCKTAKING SPECIALISTS to the Entire DRUG TRADE.

£500 returns.—KENT.—Very profitable Light Retail; unlimited scope; payment by instalments could be arranged; price £250.

£700 returns .- SOUTH YORKSHIRE .- Very profitable Country Business; very few Patents; convenient house; rent £28; price, valuation, about £400.

-YORKSHIRE .- High-class Retail and Dispens-£1.300 returns. ing in suburb of large town; valuation about £900.

£820 returns.—SUSSEX.—High-class Retail in small town; net profit certified by accountant £380; £1,000 can easily be done by more energetic man; exceptional reason for sale; price £650.

£1,000 returns .- YORKSHIRE .- Light middle-class Retail, with Wine Licence; qualified man would find excellent scope for N.H.I.; 2,000 patients pass the door.

£550 returns.—LONDÓN, W.—Fine double-fronted shop, in good position; Light Retail; excellent scope for Photo; price £350; family reasons for sale.

£2,000 returns .- SOUTH COAST .- Good middle-class Light Retail, in favourite summer and winter resort; good position and comfortable house; price £1,000.

Valuations conducted upon the shortest notice at moderate fees,

C. PARSON BAKER

1 MOUNTFIELD ROAD, CHURCH END, FINCHLEY, N. Tel. No. Finchley 812.

Recommended by-

BRITISH DRUG HOUSES, LTD. MEGGESON & CO., LTD. BARCLAY & SON, LTD.

And at 174 VICTORIA ST., S.W. Tel. No. Victoria 27.

IMMEDIATE Sale, less than value; recent death of proprietor; central position, St. Hellier's, Jersey; well-established but lately neglected Business; good shop, large house; rent £42; first reasonable offer.

neglected Business; good shop, large house; rent £42; first reasonable offer.

VENDOR Retiring.—Prosperous Business in large town, S. Wales; net profit about £400; early purchaser can have it at less than valuation, say under £1,000, and part purchase can remain. UNOPPOSED, in increasing town, North Kent; returning £600 under manager, showing good profits; rent £40; price £250, part can remain; managerial difficulties sole cause of sale.

COUNTY KIRKCUDBRIGHT.—Old-established Retail; neglected ill-health; £1,000, now £500; modern house; large shop; good position; rent £30; vendor owns; immediate sale discount allowed from valuation stock and fixtures.

VERY Pleasaut Town, Devon Coast.—Annually increasing Business; now nearly £800, at good prices, without side-lines; large house; sea view; rent £60; price, value of stock and fixtures and very small goodwill.

THOS.TOMLINSON

CHEMISTS' VALUERS, TRANSFER AGENTS, AND EXPERT STOCKTAKERS,

45a MARKET STREET, MANCHESTER. ESTABLISHED OVER HALF A CENTURY.
Telegraphic Address: "Tomtom."

We desire particularly to draw the attention of Colonial Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

Chemists' Valuers and Transfer Agents, 35 JEWRY STREET, FENCHURCH STREET, CITY.

TELEPHONE: 1809 CENTRAL.

Have the following businesses for Disposal. (No charge to Purchasers.)

1.—HOME COUNTY (25 miles out).—Good-class Light Country Retail, in best position of pleasant market town; returns £1,200, increasing; net profit £350; large house and garden; stock and fixtures worth fully £650; price £800, or near offer; will stand fullest investigation.

2.—EASTERN COUNTY.—Good-class Retail and Dispensing Business, with good sale of own proprietaries. Returns £900, good profits, low rent. Handsome pharmacy in best part of most desirable town. Fully stocked. Price £700; bare value of stock and fixtures.

3.-LONDON, S.W.-High-class Dispensing Family Retail Business in first-class residential suburb; splendid position; returns £1,300, increasing; good profits; low rental; handsome pharmacy; price £900

4.-LONDON, W.-Good-class suburban Retail Dispensing and Photographic Business, in growing district; returns £750, scope for increase; well-fitted shop; good stock; price £300 or near cash offer.

5.—CHESHIRE.—Good-class Dispensing and Light Retail; over 3,500 private scrips yearly; returns £1,000; net profit £300; Assistant kept; good residential locality; nice house, etc.; price

£750.
6.—BIRMINGHAM.—Light Family Retail, Prescribing and Dispensing Business; returns over £1,300; clear net profit £400; low rent; lock-up shop, well fitted and heavily stocked; price £650, under valuation.
7.—LINCOLNSHIRE.—Good-class Retail, Dispensing, and Prescribing, with N.H.I.; returns £1,600; net profit about £600; low rent; busy market town; price £900.
8.—DERBYSHIRE.—Unopposed Light Village Retail Business; returning £550; net profit £195; books properly kept; good house and shop; low rent; price for quick sale £250, about valuation.

valuation

valuation.

9.—SURREY.—Unopposed Light Retail and Dispensing Business; \$5,000 private scrips yearly; returns £620; net profit £200; modern house, attractive shop; price £430.

10.—NORFOLK.—Old-established Retail and Agricultural Business, in good market town; same hands many years; neglected; returns over £800; net profit about £250; can easily do £1,200; price simply valuation, all over £400 can remain.

11.—LANCS.—Cash Retail, Prescribing, with N.H.I.; returns over £900; net profit over £300; good main road position; low rent; convenient house; stock and fixtures worth £475; price only £350.

12.—DEVON COAST.—Good-class Retail and Dispensing Busi-

12.—DEVON COAST.—Good-class Retail and Dispensing Business, increasing; returns nearly £800; good profits; large shop, modern fittings and good stock; price £560, little more than

ness, increasing; returns nearly £800; good profits; large shop, modern fittings and good stock; price £500, little more than valuation.

13.—LONDON, N.W.—Sound middle-class Cash Retail Business; in good position; returns over £1,500; net profit nearly £500; books open to fullest investigation; own property; low rent; price £800.

BUSINESSES WANTED.

Messrs. BERDOE & FISH, having been successful in disposing of several businesses lately, are now in want of sound concerns returning from £800 to £3,000. Cash buyers waiting. Strictest confidence guaranteed. Intending vendors are cordially invited to correspond.

BUSINESSES FOR DISPOSAL.

35, 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d**.

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CORNISH RIVIERA.—Owing to death of proprictor, an old-established Family and Dispensing Business for Disposal; fine double-fronted shop, beautifully fitted; excellent position in busy street; for energetic gentleman with a little capital and knowledge of Photography this affords an unusual opportunity; every investigation courted. Keen's Pharmacy, Penzance.

LANCASHIRE (Seaside Resort).—Chemist's Business for Sale in good-class residential district; good house attached; rent £50; house sublet for £50; the business is now run as a branch; would suit single or married man; great scope for increase; very healthy town; price £200. Apply, 111/19, Office of this Paper.

LONDON (Few Miles Out, Essex).—Ready-money Light Retail Business for immediate Sale; present returns under manager £18 to £19 weekly, in addition to nearly £500 a year in Panel Prescriptions; modern shop; splendid position; smart man would double the Counter trade; cash price £600 inclusive. Apply, "Essex" (117/027), Office of this Paper.

L ONDON, S.W.—Old-established Business; run on modern lines; splendidly fitted with electric light and gas; well stocked; long lease; open to reasonable offer for immediate purchase. Personal inspection invited after applying to "Paragon" (200/17), Office of this Paper.

London, S.W.—Unique opportunity for qualified business man; corner main, road premises; splendidly fitted shop; lately closed, reason given; to be Sold; or would be Let, with use of fittings, at moderate inclusive rent; stock at valuation; fine chance for large Panel connection. Call, Wingfield, 35 Park Road, Merton, S.W.

NEAR Oldham.—Exceptional opportunity for a qualified Chemist; smart Drug Store for Sale; only one qualified in the district; 17,500 population; on main road; nicely situated; turnover just under £800; good profits; rent £22; nice healthy district; splendid opening for N.H.I. Apply, 111/21, Office of this Paper.

NEAR Manchester. — Well-stocked Business in working-class neighbourhood for Sale for £150; turnover about £400; net profit £130; capable of very considerable increase; anyone with knowledge of Dentistry could do well in same. Apply, 115/27, Office of this Paper.

NORTH-EAST COAST (Fashionable Resort).—First-class Retail and Dispensing, splendidly fitted, for valuation of stock and fixtures; principals only treated with. Apply in first instance, 100/9, Office of this Paper.

NORTH WALES.—For Sale as a going concern, old-established Business of Chemist and Druggist in Wrexham; shop splendidly situated in main thoroughfare; well stocked; modern fittings; electric light; exceptional opportunity for energetic man; business must be sold. For further particulars apply A. Moffatt, Accountant, 20 Regent Street, Wrexham.

CHEMIST'S Business.—For Sale, a genuine, old-established concern; owner retiring; good position in extensive industrial district. Particulars of Ryder, Scammell & Bowyer, Auctioneers, Eastleigh.

CHEMIST'S Business; beautifully situated near Sussex border; good premises, large garden, private entrance; double-fronted shop; very low rent; stock and fixtures valued over £200: owner must sell; no offer, however low, but will receive consideration; enet profit £160. Apply, "Statim" (117/27), Office of this Paper.

ENTAL Practice (non-resident) in fine position, West-End main DENTAL Practice (non-resident) in the position, west-flad main road; doing £50 per month under manager; owner (Medical man) no time to supervise; rent of Surgery, Workshop, and use of Waiting-room £1 per week; price £150 cash for goodwill, book debts, furniture, and utensils; instalment offers not entertained. Apply, "Medical," Broadway House, 263 Hammersmith Road, W.

DRUG Stores to be Sold for a sacrifice; double window; lock-up shop; fixtures and fittings cost £90, sell £35; stock £30, or valuatiou; bargain as it stands for £50 cash; carried on as branch, but unable to give it proper attention. "Chemist," 191 Dudley Road, Birmingham.

NEGLECTED Business; taking £6 weekly; scope to take £10 weekly; plenty of N.H.I. to be done; well stocked; 8 rooms and side entrance; low price for immediate sale; owner leaving Retail. Apply, 115/17, Office of this Paper.

To be Sold by Public Auction at the Mart of the undersigned, on Wednesday, the 30th day of December, 1914, at the hour of 2 o'clock p.m., as a going concern, the Goodwill of the Business of Druggists and Chemists carried on by McMullan & Co. at 16 Main Street, Larne, in the County of Antrim. together with the Stock-in-Trade, Fittings and Fixtures, and interest in lease. The premises consist of dwelling-house, shop, and garden, and are held for 31 years from the 1st day of November, 1902, at the yearly rent of £33.

The vendors will undertake not to carry on business of a similar nature in the town of Larne.

This is one of the oldest established businesses of this kind in the district.

Further particulars may be obtained from the vendors, McMullan & Co.; James Morton & Sons, Ltd., Auctioneers, Wellington Place, Belfast; or Samuel Ross, Solicitor, 10 Arthur Street, Belfast.

VERY profitable Business for immediate Sale in rapidly growing Yorkshire country town; no opposition; turnover nearly £450 and increasing; good profits; splendid opening for young man; £250 to cash buyer for quick sale; grand house and shop; rent and rates £24; owner taking larger. "Ebor" (115/28), Office of this Paper.

BUSINESSES WANTED.

A DVERTISER desires to purchase sound Cash Business, with scope for increase, showing net profit £250-£350 per annum; Lancashire preferred: in strict confidence. "Aspirin," 6 Dartmouth Park Avenue, Highgate, London, N.W.

GOOD sound Business, with good house attached, required; Country preferred. Send full particulars, in strictest confidence, to "T.," c/o Messrs. British Drug Houses, 22 Graham Street, City Road, London. Cash ready.

AGENCIES.

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GLASGOW house, with Chemist and Druggist connection throughout Scotland, is open to Represent further lines. 111/16, Office of this Paper.

RUSSIA.—Advertiser desires to Represent British firms making or dealing in Chemical and Pharmaceutical products; good connection with large buyers; highest references. R. Crottet, P.O. Box 277, Petrograd.

APPRENTICESHIPS.

WANTED to Apprentice smart youth, A.P.S., with Chemist in Manchester. State terms, 106/1, Office of this Paper.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d**-

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RETURNING PHOTOS, Etc.

Advertisers in this Section who receive portraits and copies of testimonials from applicants with a stamped addressed envelope for reply are reminded that the undue retention of these often means a hardship to the sender. All personal documents should be returned as promptly as possible after perusal.



This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

RETAIL

A MERSHAM, S. Bucks (45 minutes from Town).—Part-time Assistant wanted: unqualified; 2.30 to 6 daily, Thursdays and Sundays excepted; travelling expenses paid. Kennard, Chemist, Amersham.

BUXTON.—Wanted, smart Assistant for high-class Dispensing business; outdoors. Apply, stating salary required and full particulars, to Pugh, Chemist, Buxton.

HULL.-Wanted, Junior Assistant (outdoors), used to goodclass Retail and Dispensing business. Send full particulars, age, reference, and salary required. C. H. Kirton, Pharmaceutical Chemist, 197 Coltman Street, Hull.

LANCASHIRE.—Qualified Assistant required shortly for branch, Light Mixed Retail and Dispensing business. Please state age, experience, salary required, and references, 117/17, Office of this Paper.

L ONDON.--Young qualified Assistant required for a high-class business in the City; comfortable permanency to a steady and reliable man. State age, experience, and salary required, 113/34, Office of this Paper.

L ONDON, N.W.—Wanted January 6, unqualified, experienced Assistant, about 22 years of age; indoors preferred. Apply, giving full particulars and salary required, to W. H. Bell & Co., 96 Albany Street, Regent's Park, N.W.

L ONDON, S.W.—Qualified Assistant (indoors) to commence at replace reoruits. Apply personally, or enclose photograph, to Tupholme & Son, 1 Coleherne Terrace, Earl's Court, S.W.

ONDON. S.W.—Outdoor Junior wanted, December 28, for goodclass business in Clapham district. Apply, with usual particulars, enclosing photo, or call personally, Banbury, 390 Walworth Road, S.E.

ONDON, W.—Wanted, at once, qualified Assistant (outdoors) for Dispensing Counter. Apply, stating age, height, salary required, with full details of previous experience, to W. Martindale, 10 New Cavendish Street, London, W.

L ONDON, W.—Competent Assistant wanted; good Dispenser and Counterman; to sleep on premises and board out. Apply, Whitmore Baker, M.P.S., 239 Elgin Avenue, Maida Vale, W.

L ONDON, W.—Assistant, with Dispensing experience, age about 24; outdoors; January 4. Harding, The Avenue, West

LONDON, W.—A vacancy occurs for a smart Junior qualified Assistant, about 25, speaking French; must have had good experience and be well recommended for a high-class business. Heppell & Co., 164 Piccadilly, W.

 ${
m M}^{
m INEHEAD,-Wanted,~a~Junior~Assistant~with~knowledge~of}$

NEAR London.—Junior, unqualified, required for high-class business; opportunity for capable young man gaining excellent experience; outdoors; permanency. State age and salary required, 113/340, Office of this Paper.

READING.—Wanted in a few weeks, qualified Assistant (indoors or outdoors), gentlemanly and obliging, for good-class Dispensing and Light Retail; must be well recommended. State usual particulars, with salary required, to J. C. Rowell, 3 Duke Street, Rending.

OUTHEND.—Married Assistant, no family, to live in flat over Chemist's shop; permanency; energetic; good Counterman and Window-dresser; Insurance Dispensing. All particulars, with photo, references, salary, etc., "Hampton Wafa," Thorpe Bay Gardens, Southend-on-Sea.

CUNDERLAND.—Wanted, Junior Assistant, with nhout 3 or 4 years' Countor experience; good character. References, wages to Milburn's, Ltd., 95 and 97 Northumberland Street, Newcastle-on-Tyne.

A FTER Christmas.—Assistant required for light Retail and Dispensing business, with good knowledge of Photography and ability to dress windows; please state age, height, salary required (outdoors), photo if possible. Apply, with references, to G. R. Dawson, 42 High Street, Southend-on-Sea, Essex.

 ${f A}$ N Assistant, with a good general knowledge of his business; good Extractor; permanency for a suitable man. "T.," 29 Miskin Road, Dartford.

A SSISTANT wanted, with energy and ability; must be over rocruitable age; permanency and good salary. Apply, Messrs. Timothy White Co., Ltd., Chemists. Portsmouth.

A SSISTANT, Junior preferred (preference to one able to start at once), for good-class Light Retail and Dispensing business. Full particulars, references, and state salary required (indoors or out), A. G. Reid, Petersfield, Hants.

A SSISTANT (outdoors), unqualified, wanted early in January; must be experienced at Counter and good Salesman; knowledge of Homeopathy preferred, but not essential; no Bank Holiday or Sunday duty; weekly half-holiday; permanency to a suitable man. Photo, with full particulars and salary required, to Fuller & Co., Chemists, Norwich.

A T Once.—An Assistant as Junior; Senior kept; used to Dispensing; or lady Assistant would be entertained. Please state age, experience, salary (in- or out-doors), and latest references, Bevan & Sons, Pharmacists, Harwich, Essex.

COMMENCING next week (Christmas Holidays free), an unqualified Assistant required for Light Retail and Dispensing business. Apply, with usual particulars, stating salary required (indoors), and enclosing photo, to R. H. Fowler, 56 London Road, Southampton.

DOCTOR'S Dispenser and Bookkeeper (male) wanted for Practice on South Coast; married or single; house and reasonable salary offered. Apply, with references, stating age, 116/12, Office of this Paper.

ELDERLY qualified Chemist required, mainly for N.H.I. Disnessing: comfortable and permanent berth. State age, salary required. 113/034, Office of this Paper.

JUNIOR, about 20, wanted. State salary required (outdoors) and usual particulars, W. Roberts, Chemist, 73 Brook Street,

JUNIOR Assistant (unqualified) wanted December 28; must be a good Dispenser and Stockkeeper; outdoors. Particulars of experience, salary required, and phote to Mr. Reid, 2 Queen Street, Exeter.

JUNIOR Assistant (outdoors) required for old-established country business. Apply, giving full particulars, and enclose photo, to Gostling & Co., Chemists, Diss, Norfolk.

JUNIOR Assistant for good-class and Mixed country business, early in January. Write, stating full particulars and salary required (outdoors), to Horrocks, Chemist, Knutsford.

JUNIOR Assistant in West-End business wanted immediately; outdoors; some knowledge of Tablet-making an advantage, but not essential. Apply, "W." (199/1), Office of this Paper.

NATIONAL Insurance Prescription Checking.—Smart young man wanted for continuous Checking and work appertaining thereto; qualification not essential; good prospects for energetic and capable man. Apply, with particulars as to experience, stating carliest date at liberty, 111/15, Office of this Paper.

QUALIFIED Chemist required; short hours; casy and permanent berth for single man; 12 miles from London. State full particulars to 105/38, Cffice of this Paper.

QUALIFIED Manager for Branch in Colliery district, early in January; abstainer; permanency. Age, experience, and salary required to D. George, Chemist, Pentre, Glam.

QUALIFIED Assistant, accustomed to good-class Light Retail and Dispensing business. Please state age, height, experience, and salary required to Prebble & Bone, Chislehurst.

QUALIFIED and experienced Manager required on January 1; not under 26 years of age; must be energetic and enterprising, and have a knowledge of Photography, and also be able to superintend the dressing of windows artistically; neat and useful; references must bear the strictest investigation. Apply, stating fullest particulars, and enclosing if possible latest photograph, to 115/21, Office of this Paper.

QUALIFIED Dispenser wanted (male); must be used to West-End trade. Apply personally, as soon as possible before 6 o'clock, to Staff Superintendent, Harrods, Ltd., 44 Hans Crescent, S.W.

QUALIFIED; 28:30; indoors; very comfortable home; applicants must be accustomed to good-class Retail, and capable of taking charge; no Sunday, Bank Holiday, or other duty; required about January 1. Please state experience, J. E. Hyde, Pharmacist, Bush Hill Park, Enfield.

QUALIFIED, middle-aged Assistant for Relief work; duties light; good hours. 200/26, Office of this Paper.

CMART Assistant wanted for high-class Pharmacy; unqualified; must be good Counterman and Stockkeeper. Apply, stating age, experience, salary required, and enclose photo, Ralph Cuthbert, Ltd., Chemists, Huddersfield.

U NQUALIFIED Junior required (indoors) for light Retail and Dispensing business: time allowed for study. Apply to S. W. Dawson, 56 Knight's Hill, West Norwood, S.E.

WANTED. Assistant (outdoors) for good Retail and Dispensing business. Apply, stating age, experience, and salary required to L. Cameron, Pharmaceutical Chemist, Broad Street, Seaford, Sussex.

WANTED early in January, a smart Junior. Apply, with usual particulars, D. Thomas, 128a Penarth Road, Cardiff.

WANTED, an Assistant, not qualified, for Mixed Country business: no Suncay duty. Please state usual particulars, etc., as to salary, references, etc., W. J. Mousley, 21 Alcester Street, Redditch.

WANTED, Branch Manager; qualified; good house; not over 32 years; knowledge of Photography essential; one with same Optical experience preferred. Apply, giving last two references, salary required, and whether an abstainer, to Frank Kirkley, Chemist, Sutton-ou-Sea.

WANTED, qualified Manager for business in Liverpool: state age, qualificatious, and salary expected; good house attached, with gas. Apply, J. H. Drawbridge, Olive Cottage, Wavertree Nook Road, Liverpool.

WANTED, a qualified Assistant as Dispenser; also a Junior for the Retail Counter; outdoors. Apply, giving full particulars, to D. P. Roberts, Chemist, 120 North End, Croydon.

WANTED, Junior or unqualified Assistant, with knowledge of Photographics; must be good Dispenser. All particulars of experience, salary, and reference in application, please. A. Milne, Spa Pharmacy, Montpelier, Cheltenham.

WANTED, qualified Assistant, not under 25; indoors; smart and gentlemanly; good Counterman and Window-dresser; Photography. State age, height, salary, and references in first letter, photo, H. Lawrence, Chemist, Kenley, Surrey.

WANTED, Junior or Improver; good-class business; reasonable hours. C. Lowe & Co., Surbiton, S.W.

WANTED, January 7, gentlemanly Assistant; tall; unqualified; good Dispenser, Counterman, and Window-dresser; salary £100 and commission. Full particulars, with photo and last two references, Edwards, 192 Cowbridge Road, Cardiff.

Young married man, unregistered, as Managing Assistant; outdoors; no Dispensing or Poisons; essentials—good Salesmanship and paying Window dresser, with personal in tative to increase business; fixed salary and commission on profitable sales. Useless applying unless looking for a permanency and stating fully age, salary, when disengaged, and experience for past six years, 114/40, Office of this Paper.

WHOLESALE.

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 $A^{\rm NALYST\text{-}ASSISTANT}$ required, with Pharmaceutical qualification, by London house. State previous experience and salary required to 115/14, Office of this Paper.

COUNTER hand wanted, with experience of either Wets or Drys. Apply, stating full particulars of experience, wages expected, and age, to 115/23, Office of this Paper.

COUNTERMAN (Improver), some experience in Wets and Drys, wanted by Manufacturing Chemists; age 17 to 21. Write, stating experience, wages required, references, etc., to 108/1, Office of this Paper.

COUNTERMEN.—Two Assistants wanted at once for Dry Floor. Apply, Burgoyne, Burbidges & Co., East Ham, E.

DRUG Trade.—Experienced Wet Counter men wanted to replace men on military service. Write, stating experience, to 198/42, Office of this Paper.

EXPERIENCED hand required to take charge of Perfumery Room, early in January; must be thoroughly experienced. Write, "P.," Black Bull Works, Caledonian Market, N.

NVOICE Clerk, with knowledge of Drug trade, required at once. Apply, Head Clerk, British Drug Houses, Graham Street, City Road, N.

Invoice Clerk (male or female) required by a firm of Wholesale Druggists; Typing and experience in the trade essential. State wages expected, 117/36, Office of this Paper.

JUNIOR Invoice Clerk required by London Wholesale Druggists. Apply by letter, stating age, experience, and salary asked, to "Belladonna" (199/7), Office of this Paper.

ABORATORY.—Reliable and experienced hands wanted; used to the Manufacture of Tinetures, etc., and also of B.P. Ointment, Syrups, and Chemical Liquors, etc.; also Lad, about 17, with some experience of Tinetures, etc. Apply, stating age, experience, and wages expected, to 115/230, Office of this Paper.

MEDICATED Confectionery.—Reliable Representative for London and Suburbs, with connection and experience. "Menthol" (196/36), Office of this Paper.

TO SAVE TROUBLE.

MANY correspondents answering advertisements in this Supplement enclose remittances to cover the cost of forwarding their letters to advertisers who prefer to be addressed c/o this Office. The Publisher desires to make it clear that this is quita superfluous, and perhaps this reminder will obviate the necessity of the frequent return by him of snoh remittances.

ANSWER IN TERMS OF THE ADVERTISEMENT AND REMEMBER you are one of possibly hundreds applying for the same position. Put your case before the advertiser so that he may be able to form a MENTAL PICTURE of your suit

BE BRIEF BUT CLEAR.—Millions of applications are consigned to the waste-paper basket UNCONSIDERED, because the reader cannot form this picture from the inadequacy of the materials set before him S TOCKKEEPER. — London Manufacturing Chemists require Junior Stockkeeper; permanency for suitable man. Apply, 198/57, Office of this Paper.

TRAVELLERS wanted, calling on Chemists, to sell a good Side-line on commission; state ground covered. Apply, Harris, Harris & Co., 34 and 36 Oxford Street, W.

WANTED at once, a smart Invoice Clerk, accustomed to the Drug trade; good references. Apply by letter, "W. C. H.," 46 Southwark Street, London, S.E.

WANTED at once, temporary Counter hand, with good know-ledge of Wets; wages 24s. per week. Apply, stating full particulars, to "S." (114/6), Office of this Paper.

WANTED, Storekceper, accustomed to handling Chemicals. Reply by letter, stating age, experience, and salary required, 199/14, Office of this Paper.

YOUNG man required, with knowledge of Chemistry and some Manufacturing experience; position offers good prospects. Apply, giving full particulars, to 114/10, Office of this Paper.

SITUATIONS WANTED.

Is. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

[HOME.] RETAIL.

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A SMART unqualified (25), married, disengaged, wants permanency in London (no Dispensing) to Manage Drug Stores; salary 35s. J. J. Smith, 8 Vaughan Road, Loughborough, London, S.E.

A DVERTISER (30), married, wants berth as Branch Manager or Assistant; good Retail experience and Dental knowledge; unqualified. "Rhei" (114/39), Office of this Paper.

A SSISTANT; smart, keen Salesman, accurate Dispenser, attractive Window-dresser, Photographics; excellent testimonials. 117/26, Office of this Paper.

A SSISTANT; 30; qualified; high-class Dispensing; London or Provinces; experienced. "P." (113/29), Office of this Paper.

A SSISTANT; Counter, Dispensing; accustomed sole charge; local; disengaged. 191 Dudley Road, Birmingham.

A SSISTANT; unqualified; 5 years' experience Dispensing and Mixed business; 21 years; outdoors preferred. Miell, 44 Boultham Avenue, Lincoln

A SSISTANT; 25; unqualified; whole or part time in Liverpool or Manchester; N.H.I. Dispensing and Counter; disengaged January. "Assistant," c/o Kieft, M.P.S., Manselton, Swansea.

A SSISTANT; 43; unqualified; disengaged January. Thomas Cumberland House, Abergele, N. Wales.

RANCH Manager or Assistant; London only; unqualifiedsingle; abstainer; 42: 5 ft. 10 in.; good references; disengaged; all-round experience. "Hodie," 10 Alfearn Road; Clapton, London

COMPETENT Assistant, good Dispenser, Counterman, Window-dresser, seeks Part-time, temporary or relief work; highest references. 1 Grange Road, Margate.

 $ar{f D}^{
m ISPENSER}$ (unqualified), Bookkeeper; educated lady (26) seeks situation in London. 113/23, Office of this Paper.

DISPENSER, qualified, 26, tall, seeks situation Scotland, January. Graham, Blencow Mill, Penrith.

DISPENSING.—Chemist, some years away from business, will give services free in brisk Dispensing business. 113/25, Office of this Paper.

EARLY in the New Year. As Manager; qualified; first-class experience; thoroughly reliable; married; permanency. 116/10, Office of this Paper.

 ${
m E^{VENINGS}};$ Lady Dispenser (Hall); experienced; knowledge Shorthand, Bookkeeping, Insurance Pricing. 115/12, Office of this Paper.

GENTLEMAN seeks position with Doctor as Dispenser; in or near London; experienced Dresser and Car Driver; best references. 90/1, Office of this Paper.

IMMEDIATELY.—Assistant, Manager, or Locum; abstainer; thoroughly capable; Counterman and Dispenser; excellent. references; London or district; unqualified. "E. F.," 56 Isledon Road, N.

JUNIOR (20) requires position (indoors), London; high-class Dispensing experience; excellent references. 113/21, Office of this Paper.

JUNIOR; 23; January; 9 years' experience; S.E. or S.W. preferred. State salary, hours, "Hector," 8 Cavendish Road, Croydon.

LADY Dispenser, experienced, desires re-engagement, Doctor or Institution; Bookkeeping; good testimonials; could assist in Surgery; disengaged. Miss Cousens, 74 Malvern Road, Thornton Heath.

ADY (Minor), good Dispensing experience, Retail, Photography, desires post in London; disengaged. 115/31, Office of this Paper.

LOCUM; Hospital; lady (Apothecaries' Hall); 7-10 days, January 1 or 2. Particulars, Miss Hardwiche, Bury St. Edmunds.

MANAGER; qualified; 26; Scotsman; keen worker; abstainer; waried experience, private and company; excellent testimonials; country business preferred. Fullest particulars given, 109/24, Office of this Paper.

MANAGER; qualified; married; middle-aged; 5 ft. 11 in.; good all-round experience; abstainer; permanency; disengaged; London or district. "Pharmacist," 21 Minster Road, Cricklewood, N.W.

MANAGER or Locum (qualified) discugaged; good experience; reliable. Pharmacist, 165 Percy Road, W.

MANAGER, temporary or Locum; 40; qualified; experienced and reliable; Pharmacy or Optics. "Pharmacist," 48 Bearwood Hill Road, Burton-on-Trent.

MANAGER, qualified, age 33, married, considerable London experience, at present managing large business in the provinces, desires to return to London, City or West End. Reply, 115/32, Office of this Paper.

MANAGER; qualified; view to succession if suitable; Photography, Insurance Dispensing. 114/20, Office of this Paper.

MANAGER (outdoors); qualified; N.H.I.; London; all round; interview; disengaged. 93/25, Office of this Paper.

MANAGER, Branch; qualified; experienced, active, obliging. "H.," 555 Battersea Park Road, S.W.

MANCHESTER District.—Assistant; 23; unqualified; whole or part time; Dispensing, Counter, and Window-dressing. 116/18, Office of this Paper.

MIDDLE-AGED qualified man; nominal wages for permanent occupation; single; London preferred. "Minor" (115/18), Office of this Paper.

PART-TIME, Minor Student requires; Birmingham (City). 115/15, Office of this Paper.

PHARMACIST; married; 32; varied experience; Optics and Photographics; disengaged. "Pharmacist," Jones Baker, Pillowell, Lydney, Glos.

PLYMOUTH District.—Manager, Assistant; Locum, permanency; qualified; moderate terms. 8 Windsor Crescent, Mannamend, Plymouth.

QUALIFIED Chemist, 50, experienced, requires Locum, Counter and Dispensing or Hospital work; outdoors. "Chemist," 58 Grove Lane, Camberwell.

 $Q^{\rm UALIFIED;\ middle-aged;\ all-round\ experience;\ good\ references.\ Rees,\ Studleigh,\ Headington.}$

QUALIFIED: 31: Assistant or Locum. "Roberson," 1412 Ribblesdale Road, Streatham Park, London, S.W. QUALIFIED; Manager or Senior; permanent or temporary. 45 Sheffield Road, Dronfield.

QUALIFIED; disengaged December 28; experienced; temporary or otherwise. Woodhead, c/o Middleton's Pharmacy Stores, Askern, near Doneaster.

QUALIFIED; 30; disengaged; outdoors; references. 115/11, Office of this Paper.

QUALIFIED; 28; tall; Dispensing, Counter, and Agricultural experience; disengaged after Christmas. 115/3, Office of this Paper.

RELIEF; reliable; reasonable; Pharmacy, Institution. Hall, 48 Handforth Road, Clapham Road, S.W.

SITUATION required as Stockkeeper, Retail or Wholesale Chemist's. Margaret Williams, 37 Burgoyne Road, Harringay, N.

SUCCESSION.-Manager, view purchase; highest references. "Alpha," 104 Battersea Rise, S.W.

SUCCESSION entertained by unqualified as Manager; varied experience; money ready; confidential terms. 115/8, Office of this Paper.

UNQUALIFIED; 26: N.H.I. Dispensing, Photography, Prescriber; disengaged. 114/1, Office of this Peper.

UNQUALIFIED; evening work wanted; Dispensing or Surgery Attendant. "A.," 24 College Street, Chelsea.

UNQUALIFIED: 35; Dispensing, Connterman, and Photography; excellent experience. "G." (117/32), Office of this

50s. WEEKLY (outdoors) (in if desired), unqualified Assistant; high-class business only; exceptional references; Dispensing and "personal" Counter work. C. Wynne Tighe, High Street, Exeter.

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A DVERTISER, with connection amongst 800 "live" Chemists, will introduce, on commission basis, quick selling and profitable lines; those where Sole Agency for district can be offered preferred. Particulars to "Salesman" (115/1), Office of this Paper.

A GE 40; any capacity; good knowledge of Retail; disengaged; references. "F.," 40 Seymour Street, N.W.

RXPERIENCED Pricing Clerk desires engagement. 114/7, Office of this Paper.

JUNIOR Buyer; Druggists' Sundries; conversant with markets; has Manufacturing experience. 114/31, Office of this Paper.

PHARMACEUTICAL Chemist seeks position as Business or Works Manager; experienced in Office, control, advertising, correspondence, selling schemes, Factory costs, etc.; for several years had charge of a well-known Laboratory, and has been accustomed to originate, manufacture, and pack Specialities in very large quantities, Toilet Articles, Malt Extract, Infants' Foods, Capsules, Pastilles, Tablets, etc.; exceptional references and experience. 114/36, Office of this Paper.

REPRESENTATIVE, Birmingham and Midlands, 12 years' sound connection leading bnyers, open for one additional line; commission, share expenses; undeniable references; Society guarantee. 113/33, Office of this Paper.

REPRESENTATIVE.—Smart business man, qualified Chemist, 31, good Travelling experience with first-class firm, seeks position from beginning of year. Address, "Representative" (116/4), Office of this Paper.

STRUATION required, Chemist's and Drug Stores or Wholesale Druggists; Labelling and Packing Shop Stock, Drugs, and Sundries; female; experienced; 8 years' good references. "M.," 79 Stanley Road, Ilford.

UNQUALIFIED (21) seeks position in Wholesale or Manufacturing Chemists; good training in Chemistry (references), but only Retail experience. 105/37, Office of this Paper.

YOUNG man, disengaged, desires position in a provincial Drug house; 7 years' experience; first-class references. "Phenol," 227 Humberstone Road, Leicester.

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(Colonial, Indian and Foreign.)

1s. for 12 words or less; 6d. for every 10 words beyond, prepaid. The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

This heading is reserved for assistants seeking situations in the British Colonies. India, and Dependenci or elsewhere abroad.

A YOUNG Scotsman would like situation abroad, America or Australia preferred. Apply, "Mac," 111 Norroy Road, Putney, Loudon, S.W.

Refugee Belgian Pharmacists.

This section is devoted to the announcements of Belgian confrères at present in this country. We shall be pleased to insert gratis announcements of a similar character from others who are seeking situations in the Drug trade.

Cette section est réservée pour les annonces des confrères belges qui se trouvent actuellement dans ce pays. Nous serons henreux d'insérer gratis des annonces semblables de oeux cherchant des places dans le commerce des drogues.

A NTWERP Pharmacist, speaking French, Flemish, and a little English, would like a situation in London (South side preferred). Write, Emile Dol, Rake Manor Cottages, Milford, Surrey.

BELGIAN Manufacturer, of good standing, who has been very hard hit by the war, seeks employment in a Wholesalc Druggist's firm, Chemical Works, or Pharmaceutical Laboratory; good general knowledge of the trade. Write to 196/49, Office of this Paper.

BELGIAN Pharmacist, of good standing, from Malines, would like some occupation in a Pharmacy or Wholesale Drug house, preferably near Birmingham. Write to V. Van Hoorenbeeck, Central Hotel, Parkstone, Dorset.

BELGIAN Pharmacist and Druggist seeks situation in Hospital, Public Institution, Pharmacy, or Wholesale Drug house; speaks only a little English, but French and Flemish. Write to C. Danis, Cranston's Waverley Hotel, Southampton Row, W.C.

BELGIAN Refugee, with good experience in Oils, Drugs, Colours, and Drysalterles, desires light employment in Wholesale Drug house or in an Oil and Colour business; recovering from wounds received near Antwerp, and would prefer elerical work. John Vlemickx, Rosebank, 3 Hermon Hill, Snaresbrook.

MERCHANT-EXPORTER (Belgian Refugee), many years' experience in the Export of Drugs, Chemicals, and Druggists' Sundries *to South America, desires situation in Wholesale or Manufacturing house in London or large Provincial town, or as Representative in South America; speaks and corresponds in French, Dutch, English, and Spanish. Address, R. De Roubaix, 105 Burnt Ash Hill, Lee, S.E.

PHARMACIEN (Belgian diploma) with considerable experience of Crude Drug business wants situation in Pharmacy, Wholesale Drug-house, or with firm manufacturing Dairy Specialities, with a view to representation in Belgium, Holland, and France; married. Address A. Willio, 58 Albany Road, Cardiff.

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WANTED.

KELLY'S Directory of Chemists and Druggists," 1912 edition. 196/7, Office of this Paper.

WANTED, folding and vest-pocket cameras, also prism binoculars, any quantity, for cash. Full particulars to Watson's, 84 High Street, Sheffield.

WANTED, a pair of carboys (pear-shaped) to hold about 10 or 12 galls. State price and particulars, Hoppell & Co., 164 Piccadilly, London, W.

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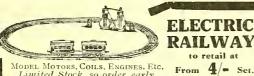
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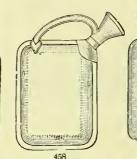
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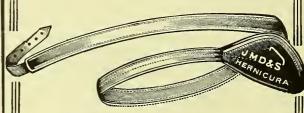
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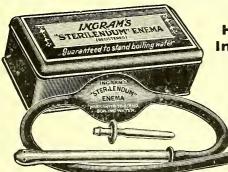
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